

Executive summary

GHD Pty Ltd (GHD) was commissioned by the Public Transport Authority (PTA) to conduct an environmental investigation for the proposed Forrestfield Airport Link (FAL) and associated infrastructure. The purpose of this investigation was to undertake an assessment of the major environmental constraints in the Study Area. The results and recommendations of this environmental investigation will provide advice on any next steps and environmental approvals which may be required.

This report is subject to, and must be read in conjunction with, the limitations set out in sections 1.4, 3.1.1, 3.4 and the assumptions and qualifications contained throughout the Report.

Key environmental constraints

There were a number of potential environmental and ecological constraints within the Study Area. Given that the Project is still in the planning phase the PTA has the opportunity to review and refine the alignment to avoid, or minimise, impacts to these constraints. These constraints include:

- All vegetation associations and complexes mapped as occurring within the Study Area have less than 30 percent of their pre-European/pre-1750 extents remaining. However, the Study Area may be considered to be within a constrained area of the Swan Coastal Plain (EPA, 2006a). In this case, Beard (1979) vegetation association 1018 and all the Heddle et al. (1980) vegetation complexes are present at greater than 10 percent of their pre-European/pre-1750 extents remaining and would not, therefore, be considered critical assets. Vegetation associations 1001 (in the Cities of Bayswater and Belmont and the Shire of Kalamunda) and 1009 (in the City of Bayswater) are present at less than 10 percent of their pre-European extent remaining, and may, therefore, be considered critical assets.
- Three of the vegetation types identified within the Study Area during the 2013 GHD surveys had affinities with five TECs that have previously been recorded within 5 km of the Study Area. In addition, Mattiske Consulting Pty Ltd (2008) suggested similarities between identified vegetation types within the Perth Airport portion of the Study Area and four TECs. The Morgan (2013) survey of part of the Study Area suggested similarities between identified vegetation units and four TECs.
- A total of 27 individuals of the wavy-leaved smokebush (Conospermum undulatum) (listed as Threatened under the WC Act and Vulnerable under the EPBC Act) were recorded within the High Wycombe area during the Level 2 survey.
- Up to 19.5 ha of foraging habitat and 125 potential breeding habitat trees were recorded throughout the Study Area. Potential night roosting and breeding habitat along Poison Gully Creek was also recorded for threatened Black Cockatoo species.
- Up to 19.5 ha of woodland and additional planted shrub habitat (e.g. Victorian tea tree) for the Quenda
- There is habitat suitable for fauna of conservation significance including the Perth-lined Skink (woodland habitat) and the Water Rat (riparian woodland habitat along the Swan River and Poison Gully Creek).
- The Study Area crosses one Bush Forever Site (386) and intersects the corner of another (45 – Poison Gully Creek). The Project should consider avoidance and minimisation to these values during an alignment review and refinement process.

• Ten geomorphic wetlands, including three conservation category wetlands, one EPP Lake, and two wetlands of national significance are within the Study Area. The conservation significant wetlands are located in association with the Swan River and the Perth Airport woodland swamps. The Project requires consideration of these areas in order to avoid or minimise impacts on these wetlands. Indirect impacts, such as impacting on surface water flows or groundwater must also be considered.

Legislation & approvals

There is the potential for two Federally listed Endangered TECs (SCP3a and SCP3c) to occur within the Study Area.

Consultation with DPaW will be required to determine if these areas are considered to be TECs. If DPaW advises that they are considered to be TECs, the Project will likely require referral under the EPBC Act.

A total of 27 individuals of the wavy-leaved smokebush (*Conospermum undulatum*) (listed as Threatened under the WC Act and Vulnerable under the EPBC Act) were recorded within the High Wycombe area during the Level 2 survey. Disturbance to any of these species would likely require referral under the EPBC Act. Although not identified during the field survey, there is the potential for an additional five Federally listed flora species (all State Threatened and Federally Endangered) to occur within the Study Area.

Clearing of the current alignment of the rail corridor could potentially significantly impact one or more of the three species of Black Cockatoo and is likely to trigger the need for referral because it is likely that more than 1 ha of quality foraging habitat would be removed. However this Project is still in the preliminary stages and the full extent of clearing is unknown. Once further information (e.g. preferred alignment, extent of clearing and construction methods) is known, the need to refer and the significance of impacts to these species should be re-considered.

Any clearing of native vegetation requires a clearing permit under Part V of the EP Act, except when a project is assessed under Schedule 6 of the Act or is prescribed by regulation in the *Environmental Protection (Clearing Native Vegetation) Regulations 2004.* The assessment against the Ten Clearing Principles determined that based on the current Study Area the Project is likely to be at variance with Principles a, c, d, e and f and may be at variance with Principles b, g, h and i. However the Project is still in the preliminary stages and the extent of clearing is unknown. Once further information regarding the project is known, including the clearing requirements, the assessment against the clearing principles can be refined.

Recommendations

Details of the Project, such as dimensions of the proposed rail alignment (e.g. width of construction corridor) and the preferred construction method, have not been provided for this assessment. As such, this assessment identifies the potential constraints associated with the current Study Area, but does not discuss the potential impacts in detail.

At this stage of the assessment there are three main recommendations that could be used during the design and planning phase of the Project which would assist in avoiding and minimising potential impacts to the environmental and ecological values identified within this report. These are:

- Placing infrastructure required for the Project within cleared and/or disturbed areas
- Tunnelling the alignment
- Placing the alignment along the midline (median strip) of the Tonkin Highway

It is recommended that an alignment selection and refinement process be undertaken in order to reduce the potential impacts on the environment particularly those environmental values discussed above.

Depending on the outcomes of the alignment selection and refinement process, further environmental investigations may be required at later stages of the Project, including but not limited to:

- An environmental impact assessment this should include an assessment of the significance of impacts to flora and fauna, and wetlands and also consider other environmental constraints not covered in this ecological assessment.
- For completeness, it is recommended that a Level 1 flora and fauna survey within the
 inaccessible areas be conducted. The purpose of conducting these surveys would be to
 ground-truth the findings of the desktop assessment and appropriately determine the
 environmental values of these areas.
- If there are any remaining impacts on environmental values and the Project continues to be at variance with any of the Ten Clearing Principles, offsets may be required to compensate for those impacts and to achieve a net environmental benefit.
- It is recommended that there is consultation with DPaW regarding the potential TECs that may occur within the Study Area.

An Environment Management Plan (EMP) for the preferred alignment is recommended following the alignment selection and review process. The report provides an outline of the minimum recommendations required for the EMP or similar document. Adherence to these measures would help to minimise the unavoidable impacts to broader environmental and ecological values within the preferred alignment.

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1. Introduction

1.1 Project background

Growth of aviation services into and from Perth Airport has exceeded previous projections placing stress on the transportation infrastructure that serves the airport. It is predicted that Perth Airport will continue to experience growth in the coming years. The need to address the transportation demands has been recognised by the State and Federal Governments and Perth Airport Pty Ltd (PAPL).

Construction of a rail line connecting Perth city to the airport is an option which the State government is exploring to improve transportation links and cater for the predicted future demand. The Public Transport Authority (PTA) has been requested by the State Government to prepare a Project Definition Plan for the proposed Forrestfield Airport Link (FAL) (formerly known as the Perth Airport Rail Link).

As part of the planning process, the PTA has recognised the requirement to identify environmental constraints associated with potential route options and ancillary infrastructure such as car parks. In 2012, the PTA commissioned GHD Pty Ltd (GHD) to conduct an assessment of environmental constraints for the FAL (GHD, 2013a). Since this study was undertaken, the PTA's understanding of the land requirements for the project has improved. The PTA therefore requires that the Study Area of the initial assessment is broadened to match the current understanding of the Projects land requirements.

GHD was commissioned by the PTA to conduct an environmental investigation of the broader Study Area. The purpose of this investigation is to undertake an assessment of the major environmental constraints in the Study Area. The results and recommendations of this environmental investigation will provide advice on any next steps and environmental approvals which may be required.

1.2 Study Area

For the purpose of this assessment the Study Area commences south of Bayswater station on the existing Perth to Midland railway line and continues along the Tonkin Highway in a southeast direction across the Swan River, then along and parallel to the Great Eastern Highway, where it enters the Perth Airport, just south of Stanton Road. For this section of the Study Area the midline is generally Tonkin Highway and/or Brearley Avenue. The Study Area then passes through Perth Airport, exiting near Maida Vale Road on Dundas Road (Figure 1, Appendix A). The Study Area is located within the Cities of Bayswater and Belmont and the Shire of Kalamunda.

The Study Area gives consideration to the corridor options currently being considered and comprises three main areas:

- 1. West of Swan River incorporating south of the Perth to Midland rail line (approximately 36.5 ha), and north of the Perth to Midland rail line (approximately 9.3 ha)
- 2. Swan River to Domestic Terminal (approximately 37.5 ha). This area starts at the Swan River continuing into the Perth Airport land. Perth Airport land is managed by PAPL.
- 3. High Wycombe (approximately 61 ha) at the eastern extent of the Study Area.

This assessment includes three rail corridor options (Figure 1). For most of their length, the three options share a common or similar alignment. A 60 metre wide buffer either side of each

alignment option was surveyed for the desktop assessment. A brief summary of the three alignment options is provided below:

- Option 1: This option leaves the Midland Line and transitions into an elevated structure to pass over the Guildford Road/Tonkin Hwy interchange. The route then returns to surface level and crosses Dunstone Road on an independent rail bridge. The route continues in an elevated structure over the Swan River and over the Great Eastern Hwy/Tonkin Hwy interchange. The route then enters a cut and cover structure along Brearley Avenue before merging with Option 3 at the western extent of the Airport land.
- Option 2: This option leaves the Midland Line and transitions into a cut and cover structure to go below the Guildford Road/Tonkin Hwy interchange. It then returns to surface level and crosses Dunstone Road and the Swan River on an independent rail bridge. The route then passes under the Great Eastern Hwy/Tonkin Hwy interchange and Tonkin Highway in a cut and cover structure. The route then remains in a cut and cover structure before merging with Option 3 at the western extent of the Airport land.
- Option 3: This option is a bored tunnel for the entire length of the alignment. Tunnel boring will commence at the eastern end of the alignment in High Wycombe and end at the western end of the alignment to the west of the Guildford Road/Tonkin Hwy interchange.

The Swan River has been excluded from this assessment. The values of the Swan River will be discussed as part of this investigation where relevant however the PTA has advised that the Swan River will be subject to separate environmental assessment.

1.3 Scope of works

1.3.1 Previous scope of works

GHD was previously engaged by the PTA to undertake an investigation of environmental constraints during spring 2012 (the original Study Area reported in GHD, 2013a). A summary of the scope of works for this assessment is provided below.

Airport Rail Link environmental constraints assessment, November 2012 (GHD, 2013a)

The assessment included a desktop investigation and a two day flora, vegetation and fauna field survey. The scope of works was to:

- Attend a start-up meeting with the PTA
- Complete a desktop and preliminary assessment
- Conduct a two day Level 1 field survey of the Study Area in spring 2012 to identify flora, vegetation and fauna constraints
- Report on the following components including:
 - Methods, results and appropriate maps of environmental constraints
 - Discussion of the significance of the findings including the requirements under Federal and State environmental legislation
 - Address requirements for clearing permits using an assessment of the 10 clearing principles and propose offset actions where variance is identified
 - Impacts on flora and fauna from the proposed works and provision of management recommendations to address these potential impacts (including hygiene management for dieback and conservation significant flora and fauna species)
- Indicate and discuss requirements for referral to statutory authorities.

1.3.2 Additional scope of works

Following the spring 2012 assessment, the PTA reviewed the Project and expanded the Study Area. GHD was subsequently engaged to undertake an investigation of environmental constraints for the additional areas, including a Level 2 targeted spring flora survey and targeted fauna surveys. This work was undertaken in two stages as presented below.

Environmental Constraints Assessment of the High Wycombe area, August 2013 (GHD, 2013b)

GHD was commissioned by the PTA to conduct a Level 1 flora and fauna assessment for a portion of the proposed FAL and associated station (High Wycombe area). GHD provided a summary of the field assessment findings to the PTA. Methods and results of the investigation for the High Wycombe area are included in this report.

Forrestfield Airport Link environmental investigation (including Level 1 flora and fauna survey, and targeted spring flora and targeted fauna surveys), September 2013

The assessment for this report includes a desktop investigation and a two day Level 1 field flora, vegetation and fauna survey. The field survey incorporated a targeted Level 2 spring flora and vegetation survey and a targeted fauna survey where appropriate for species of conservation significance identified as a result of database searches and previous field investigations (GHD, 2013a, 2013b).

The scope of works was to:

- Conduct a desktop review to determine the environmental attributes of the additional areas and surrounding land including:
 - The presence and identification of Environmentally Sensitive Areas
 - The presence of vegetation community types, including any Threatened or Priority Ecological Communities
 - The presence of protected fauna species which may utilise the Study Area (Appendix B)
 - The presence of protected flora species which may be present within the Study Area (Appendix B)
 - The presence of wetlands
 - The preparation of maps illustrating the location of any significant areas
- Conduct a Level 2 flora and vegetation and fauna survey incorporating a targeted spring flora survey and a targeted fauna survey for species of conservation concern where appropriate. The survey was based on the findings of the desktop review and previous field investigations. The study area for these surveys incorporated the initial Study Area plus the additional study area (including the High Wycombe area) where relevant habitat for species and communities of conservation concern was identified
- Provide advice on environmental approvals requirements
- Provide recommendations on management options and approval requirements
- Prepare an updated draft report for PTA comment. The aim of the updated draft is to collate the findings of the initial investigations (GHD, 2013a) and additional investigations including the recent assessment of the High Wycombe area (GHD, 2013b) and the PTA's comments on the initial draft
- Preparation of a final report incorporating PTA's comments
- Provision of all spatial data in GIS format

This report is a culmination of the environmental assessments of the Study Area conducted to date. GHD has reported the desktop assessment findings for the Study Area. However, was unable to access the entire Study Area for the field investigations. The inaccessible areas were:

- A portion of land within the industrial area (approximately 6 ha), west of the Swan River (north of the railway line). GHD was unable to gain permission to access this area (see Figure 1, Appendix A).
- A portion (approximately 22 ha) of the High Wycombe area. The 22 ha area was the subject of a vegetation assessment (Morgan, 2013) with relevant findings incorporated into this report.
- A portion of the Perth Airport land (approximately 51 ha). However, as the area not surveyed consists of developed land including airport buildings and runway, GHD considers that not accessing this area is not a significant constraint to the scope of this environmental investigation.

Table 1 provides as summary of the types and levels of assessment undertaken for each component of the Study Area.

Details of the Project, such as dimensions of the proposed rail alignment (e.g. width of construction corridor) and the preferred construction method, have not been provided for this assessment. As such, this assessment identifies potential constraints associated with the Study Area, but does not discuss the potential impacts in detail. It is expected the area of disturbance associated with the FAL would be reduced based on refinement of the alignment and reduced footprint as this becomes more defined.

Table 1 Summary of survey methods & timing employed within the Study Area

Method	Study Area component (from west to east)						
	West of Swan River (north of rail line)	West of Swan River (south of rail line)	Connecting rail corridor	Swan River to Domestic Terminal	Perth Airport (excluding western extent) ⁱ	High Wycombe	
Desktop review	1	✓	✓	✓	✓	✓	
Level 1 flora	Partial ⁱⁱ (November 2012 and September 2013)	(November 2012 and September 2013)	(November 2012 and September 2013)	November 2012 and September 2013)	x ⁱ	(August and September 2013)	
Level 1 fauna	Partial (November 2012 and September 2013)	(November 2012 and September 2013)	(November 2012 and September 2013)	(November 2012 and September 2013)	\mathbf{x}^{i}	(August and September 2013)	
Level 2 spring flora survey	× ⁱⁱⁱ	× ⁱⁱⁱ	(September 2013)	(September 2013)	x ⁱ	(September 2013)	
Black Cockatoo habitat assessment	(November 2012 and September 2013)	(November 2012 and September 2013)	(November 2012 and September 2013)	(November 2012 and September 2013)	x ⁱ	(August and September 2013)	
Active searches	× ⁱⁱⁱ	× ⁱⁱⁱ	× ⁱⁱⁱ	(September 2013)	×i	(September 2013)	

ⁱ Area not surveyed due to restricted access See Figure 4, Figure 5 and Figure 6 for areas not accessed during survey

1.4 Limitations

This report has been prepared by GHD for PTA and may only be used and relied on by PTA for the purpose agreed between GHD and the PTA as set out in section 1.3 of this report.

GHD otherwise disclaims responsibility to any person other than PTA arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

Partial survey due to restricted access. See Figure 4, Figure 5 and Figure 6 for areas not accessed during survey

Quality and type of habitat does not warrant a Level 2 or targeted survey

Connecting rail corridor – refers to the rail corridor between the Study Area west of the Swan River and the Study Area east of the Swan River to Domestic Terminal.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

GHD has prepared this report on the basis of information provided by the PTA and others who provided information to GHD (including Government authorities), which GHD has not independently verified or checked beyond the agreed scope of work. GHD does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

The opinions, conclusions and any recommendations in this report are based on information obtained from, and testing undertaken at or in connection with, specific sample points. Site conditions at other parts of the site may be different from the site conditions found at the specific sample points.

Investigations undertaken in respect of this report are constrained by the particular site conditions, such as the location of buildings, services and vegetation. As a result, not all relevant site features and conditions may have been identified in this report.

Site conditions (including the presence of hazardous substances and/or site contamination) may change after the date of this Report. GHD does not accept responsibility arising from, or in connection with, any change to the site conditions. GHD is also not responsible for updating this report if the site conditions change.

2. Legislation

The key relevant State (WA) and Federal Environmental Legislation are outlined in Table 2. Further information on relevant legislation, conservation codes and background information are provided in Appendix C.

Table 2 Key relevant environmental Legislation

Legislation		Responsible Government agency		
State Legislation				
Agricultural and Related Resources Protection Act 1976	ARRP Act	Department of Agriculture and Food (WA)	Weeds and feral animals	
Environmental Protection Act 1986 (Part III) (the Environmental Protection (Swan Coastal Plain Lakes) Policy 1992 (SCPL))	EP Act	Environmental Protection Authority (EPA)	Swan Coastal Plain Lakes	
Environmental Protection Act 1986 (Part IV)	-	EPA	Environmental impact assessment and management	
Environmental Protection Act 1986 (Part V)	-	Department of Environmental Regulation (DER) (formerly Department of Environment and Conservation – DEC)	Works Approvals and Licenses for Prescribed Premises	
Environmental Protection (Clearing of Native Vegetation) Regulations 2004	-	DER	Clearing of native vegetation	
Wildlife Conservation Act 1950	WC Act	Department of Parks and Wildlife (DPaW) (formerly DEC)	Protection of native wildlife	
Federal Legislation				
Environment Protection and Biodiversity Conservation Act 1999	EPBC Act	Department of the Environment (DotE) (formerly the Department of Sustainability, Environment, Water, Population and Communities – DSEWPaC)	Matters of National Environmental Significance including listed threatened species, populations and ecological communities, wetlands of national importance, Commonwealth land and migratory species	

Methods

3.1 Desktop assessment

A desktop review was undertaken prior to the commencement of the field survey to identify potential environmentally sensitive areas within the expanded Study Area and at local and regional scales. This included a review of the following:

- Existing flora and vegetation surveys provided and other relevant reports as available:
 - Vegetation surveys at the Tonkin Highway and Stanton Road intersection (GHD, 2012)
 - Vegetation survey for D.A.2 Structure Plan Area, Milner Road, High Wycombe (Morgan, 2013)
 - Flora and Vegetation at the Perth Airport (Mattiske Consulting Pty Ltd, 2008)
- Bioregion and environmental setting
- Conservation areas and Department of Parks and Wildlife (DPaW) (formerly Department of Environment and Conservation – DEC) reserves
- Environmentally Sensitive Areas (ESA) (including Schedule areas) listed under the Environmental Protection (Clearing of Native Vegetation) Regulation 2004
- Bush Forever Sites
- DPaW Geomorphic Wetlands of the Swan Coastal Plain
- Wetlands of national (EPP Lakes) and regional (International) significance
- Beard (1979) and Heddle et al. (1980) vegetation mapping
- Department of the Environment (DotE) (formerly the Department of Sustainability, Environment, Water, Population and Communities – DSEWPaC), DPaW and Western Australian Museum records of conservation significant flora and vertebrate fauna species (Appendix B)
- Species or communities listed under the EPBC Act (Appendix B)
- Communities listed by DPaW as Threatened Ecological Communities (TECs) or Priority Ecological Communities (PECs)

Conservation codes are provided in Appendix C.

3.1.1 Desktop assessment limitations

Desktop investigations use a variety of online resources (such as the Western Australian Museum and DPaW NatureMap database and the EPBC Act Protected Matters database) and the responsibility for the accuracy of such data remains with the issuing authority, not with GHD. The DotE Protected Matters database is used to identify species listed under the EPBC Act. This database draws on various sources to report on the potential of the species occurrence within the area. The DotE search tool is broad-scale in its reporting and often the specific habitat requirements of the species do not occur within the Study Area. For this reason not all species reported by the search tool need to be considered in management decisions. The DPaW NatureMap database reports on actual records of the species within the designated area and can provide more accurate information of the likelihood of species presence.

The desktop assessment did not include a review of databases or other information sources for constraints relating to groundwater, contaminated site, noise, dust, or heritage constraints.

3.2 Flora & vegetation field survey

The flora assessment was consistent with a Level 1 assessment (reconnaissance survey) in accordance with the Environmental Protection Authority (EPA) Guidance Statement No. 51, Terrestrial Flora and Vegetation Surveys for Environmental Impact Assessment in Western Australia (EPA, 2004a). The reconnaissance survey involved a target area visit, with low intensity sampling of the flora and vegetation of the Study Area. A GHD Botanist accompanied by an ecologist conducted a reconnaissance survey of the original Study Area on 29 and 30 November 2012 to:

- Verify the accuracy of the desktop study
- Further delineate and characterise the flora and the range of vegetation units present in the Study Area
- Identify potential impacts

GHD conducted flora and vegetation reconnaissance surveys of the expanded Study Area in spring, 2013. On 17 September, the environmental values of the High Wycombe area were assessed. On 24 September, the environmental values of the Swan River to Domestic Terminal, West of Swan River and High Wycombe areas were assessed. Areas of good quality remnant bushland were assessed in more detail, in accordance with a Level 2 survey (EPA, 2004a) including sampling using eight quadrats and one photo point located in representative vegetation types. During all surveys, the field team conducted targeted searches for conservation significant flora species (Table 3) and vegetation communities (Table 4) considered to potentially occur within the Study Area.

Data recorded during the field surveys is provided in Table 5. Quadrat data and photographs are provided in Appendix D.

Vegetation types were identified by means of a combination of aerial photography interpretation, topographical features, previous mapping (Beard, 1979 and Heddle et al. 1980) and field observations and were compared against Floristic Community Types (FCT) identified by Gibson et al. (1994) as present on the Swan Coastal Plain. The Gibson et al. (1994) "analysis of plant communities on the Swan Coastal Plain ... is the most recent regional floristic work on public lands, ... [and considers] the patterning of plant distribution on the Plain and relates to the total flora of the Plain" (Government of Western Australia, 2000). FCT are based on the results of multivariant analysis conducted on 1122 quadrats. Comparison of vegetation against FCT identified by Gibson et al. (1994) can assist in determining the presence of TECs or PECs, although clarification with the DPaW is often recommended for certainty. In addition, FCT cannot be definitively determined when the remaining vegetation has been too disturbed to sample adequately or not enough information about the vegetation can be obtained (Government of Western Australia, 2000).

Species that were well known to the survey botanists were identified in the field, while species that were unknown were collected and assigned a unique number to facilitate tracking. Plant species were identified by the use of local and regional flora keys and by comparison with the named species held at the Western Australian Herbarium. Plant taxonomists considered to be an authority on a particular plant group were consulted, when necessary.

Table 3 Flora species of conservation significance potentially occurring within the Study Area & which were targeted during the surveys

Scientific name	Common name	Status	
		State	Federal
Andersonia gracilis	Slender Andersonia	Т	Е
Acacia anomala	Grass Wattle	Т	V
Banksia mimica	Summer Honeypot	Т	Е
Banksia pteridifolia subsp. vernalis		P3	
Bolboschoenus medianus		P1	
Boronia humifusa		Т	
Byblis gigantea	Rainbow Plant	P3	
Caladenia huegelii	Grand Spider Orchid	Т	E
Calothamnus accedens		P4	
Calytrix breviseta subsp. breviseta		Т	Е
Carex tereticaulis		P1	
Centrolepis caespitosa		P4	Е
Chamelaucium sp. Gingin (N.G.Marchant 6)		Т	Е
Conospermum undulatum		Т	V
Cyathochaeta teretifolia		P3	
Dampiera triloba		P1	
Darwinia apiculata	Scarp Darwinia	Т	
Darwinia foetida	Muchea Bell	Т	CE
Epiblema grandiflorum var. cyaneum [now Epiblema grandiflorum]	Babe-in-a-cradle		E
Eryngium subdecumbens		P3	
Eucalyptus balanites	Cadda Road Mallee	Т	Е
Grevillea curviloba subsp. incurva	Narrow curved-leaf Grevillea	Т	Е
Grevillea thelemanniana subsp. thelemanniana	Spider Net Grevillea	P4	
Haemodorum loratum		P3	
Halgania corymbosa		P3	
Hydatella dioica [now Trithuria occidentalis]	Swan Hydatella	Т	Е
Hydrocotyle lemnoides	Aquatic Pennywort	P4	
Hydrocotyle striata		P1	
Hypocalymma sp. Cataby (G.J. Keighery 5151)		P2	
Isopogon drummondii		P3	
Jacksonia sericea	Waldjumi	P4	
Lasiopetalum bracteatum	Helena Velvet Bush	P4	
Lasiopetalum pterocarpum		Т	Е
Lepidosperma rostratum	Beaked Lepidosperma	Т	Е
Lepyrodia curvescens		P2	
Macarthuria keigheryi		Т	Е
Melaleuca viminalis		P2	
Myriophyllum echinatum		P3	
Ornduffia submersa		P4	
Platysace ramosissima		P3	
Schoenus griffinianus		P3	

Scientific name	Common name	Status	
		State	Federal
Schoenus pennisetis		P1	
Senecio gilbertii		P1	
Stylidium longitubum	Jumping Jacks	P3	
Stylidium striatum	Fan-leaved Triggerplant	P4	
Synaphea sp. Fairbridge Farm (D.Papenfus 696)	Selena's Synaphea	T	CE
Templetonia drummondii		P4	
Tetratheca sp. Granite (S. Patrick SP1224)		P3	
Thelymitra magnifica		P1	
Thelymitra manginii K.Dixon & Batty ms. [now Thelymitra dedmaniarum]	Cinnamon Sun Orchid	Т	E
Thelymitra stellata	Star Sun Orchid	Т	
Thysanotus anceps		P3	
Verticordia fimbrilepis subsp. fimbrilepis		Т	E
Verticordia lindleyi subsp. lindleyi		P4	
Villarsia calthifolia [now Ornduffia calthifolia]	Mountain Villarsia	Т	Е

Conservation codes are provided in Appendix C.

Table 4 Threatened Ecological Communities potentially occurring within the Study Area & which were targeted during the surveys

Threatened Ecological Community		Status	
	State	Federal	
Banksia attenuata and/or Eucalyptus marginata woodlands of the eastern side of the Swan Coastal Plain (SCP20b)	Е	-	
Banksia attenuata woodland over species rich dense shrublands (SCP20a)	Е	-	
Claypans of the Swan Coastal Plain (identified in DSEWPaC, 2013) – relates to SCP07 or SCP09 (Dense shrublands on clay flats).	V	CE	
Eucalyptus calophylla [now Corymbia calophylla] – Kingia australis woodlands on heavy soils, Swan Coastal Plain (SCP3a)	CE	E	
Eucalyptus calophylla [now Corymbia calophylla] – Eucalytpus marginata woodlands on sandy clay soils of the southern Swan Coastal Plain (SCP3b) (identified in Morgan, 2013)	V	-	
Eucalyptus calophylla [now Corymbia calophylla] – Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (SCP3c)	CE	E	
Herb rich saline shrublands in clay pans (SCP07)	V	CE	
Shrublands and woodlands of the eastern side of the Swan Coastal Plain (SCP20c)	CE	E	
Southern wet shrublands, Swan Coastal Plain (SCP02)	Е	-	

Conservation codes are provided in Appendix C.

Table 5 Data recorded during the field survey

Aspect	Measurement
Physical features	Aspect, soil attributes. Percentage surface cover by: rocks, logs and branches, leaf litter, bare ground.
Location of important features	Coordinates recorded in GDA94 datum using a hand-held Global Positioning System (GPS) tool to accuracy approximately ± 5 m.
Vegetation condition	Vegetation condition was assessed using the condition rating scale devised by Keighery (1994).
Disturbance	Level and nature of disturbances (e.g. weed presence, fire — and time since last fire, impacts from grazing, exploration activities).
Flora	List of dominant flora from each structural layer.

3.2.1 Vegetation condition

The vegetation condition of the Study Area was assessed using the vegetation condition rating scale developed by Keighery (1994) that recognises the intactness of vegetation, which is defined by the following:

- Completeness of structural levels
- Extent of weed invasion
- Historical disturbance from tracks and other clearing or dumping
- The potential for natural or assisted regeneration

The scale consists of six rating levels as outlined in Table 6.

Table 6 Vegetation condition rating scale

Vegetation condition rating	Vegetation condition	Description
1	Pristine or Nearly So	No obvious signs of disturbance.
2	Excellent	Vegetation structure intact, disturbance affecting individual species, and weeds are non-aggressive species.
3	Very Good	Vegetation structure altered, obvious signs of disturbance.
4	Good	Vegetation structure significantly altered by very obvious signs of multiple disturbances retains basic vegetation structure or ability to regenerate it.
5	Degraded	Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not in a state approaching good condition without intensive management.
6	Completely Degraded	The structure of the vegetation is no longer intact and the area is completely or almost without native species.

(Keighery, 1994)

3.3 Fauna

The type and timing of fauna survey and assessments completed for the various components of the Study Area is summarised in Table 1. Each type of assessment is discussed below.

Nomenclature used in this report follows that used by the Western Australian Museum and DPaW NatureMap database, as it is deemed to contain the most up-to-date species information for Western Australia, with the exception of birds, which uses Christidis and Boles (2008).

3.3.1 Level 1 fauna assessment

The fauna assessment was consistent with a Level 1 assessment (reconnaissance survey) in accordance with Guidance Statement No. 56, *Terrestrial Fauna Surveys for Environmental Impact Assessment in Western Australia* (EPA 2004b).

A fauna habitat assessment check sheet was used to document the type, condition and extent of habitats within the Study Area:

- Habitat structure (e.g. vegetation type, presence/absence of overstorey, midstorey, understorey, ground cover)
- Presence/absence of refuge including: fallen timber (coarse woody debris), hollowbearing trees and stags and rocks/boulder piles, and the type and extent of each refuge
- Presence/absence of waterways including type, extent and habitat quality within waterways
- Land use or disturbance history
- Location of habitat within the surrounding landscape and habitat connectivity
- Identification of wildlife corridors within and immediately adjacent Study Area
- Evaluation of the likelihood of occurrence of listed fauna occurring within the habitat (based on presence of suitable habitat)

Opportunistic fauna searches were also conducted across the Study Area. Opportunistic searches involved:

- Searching through microhabitats including turning over logs or rocks, turning over leaf litter and examining tree hollows and hollow logs
- Visual and aural surveys. This accounted for many bird species potentially utilising the study area
- Searching the site for tracks, scats, bones, diggings and feeding areas for both native and feral fauna

3.3.2 Black Cockatoo habitat assessment

An assessment of potential Black Cockatoo habitat within the Study Area was conducted. The survey documented the presence/absence of suitable habitat trees (e.g. including *Eucalyptus marginata* (Jarrah), *E. rudis* (Flooded Gum) and *Corymbia calophylla* (Mari) trees with diameter at breast height (DBH) greater than 50 cm or greater than 30 cm DBH for *Eucalyptus wandoo*). General notes were also taken regarding the presence and extent of foraging habitat and the presence/absence of Black Cockatoo species within the Study Area.

The definition of foraging, breeding and roosting habitat for Black Cockatoos applied in this assessment is based on those definitions provided in DSEWPaC (2012b).

3.3.3 Active reptile searches

Targeted active reptile searches were undertaken for the P3 listed *Lerista lineata* (Perth-lined Skink) in potentially suitable habitats in the Study Area south of the Swan River.

Active searching involved one or two staff searching an area for 10–20 minutes including raking soil and leaf litter, turning over rocks and logs, and splitting fallen timber. Searches were conducted on September 17 2013 in partially overcast to sunny conditions with warm weather following a period of rainfall. A total of 10 active searches were undertaken in potentially suitable habitats within the Perth Airport land and High Wycombe area.

3.4 Field survey limitations

The limitations associated with the field survey are discussed in Table 7.

Table 7 Field survey variables & impact on survey outcome

Variable	Impact on survey outcomes
Experience levels	The survey ecologists are practitioners suitably qualified in their respective fields.
Timing, weather, season.	The initial survey was conducted within the spring flowering period on the 29 and 30 November, 2012, following the winter rainfall period. In the winter rainfall period (June–August) prior to the survey the Perth Airport station (station number 9021) recorded 282.8 mm of rainfall, which is 35 percent lower than the historical mean rainfall for this period (434.1 mm) (Bureau of Meteorology, 2013).
	The September, 2013 surveys were conducted within the spring flowering period. In the rainfall period (June–August) prior to the survey, the Perth Airport station recorded 302.8 mm of rainfall. This is 30 percent lower than the historical mean rainfall for this period (Bureau of Meteorology, 2013).
	Some flora species, such as annuals, are only available for collection at certain times of the year and others are only identifiable at certain times (such as when they are flowering). Additionally, climatic and stochastic events (such as fire) may affect the presence of plant species. Species that have a very low abundance in the area are more difficult to locate, due to the above factors.
	Flora composition changes over time, with flora species having specific growing periods, especially annuals and ephemerals (some plants lasting for a markedly brief time, some only a day or two). Therefore, the results of future botanical surveys in this location may differ from the results of this survey.
	Complete flora and fauna surveys can require multiple surveys, at different times of year, and over a period of a number of years, to enable observation of all species present.
Intensity of survey	The fauna assessment undertaken was a reconnaissance (Level 1) survey only and thus only sampled those species that can be easily seen, heard or have distinctive signs, such as tracks, scats, diggings etc. Many cryptic and nocturnal species are unlikely to be identified during a reconnaissance survey and seasonal variation within species often requires targeted surveys at a particular time of the year.
	The fauna assessment was aimed at identifying habitat types and terrestrial vertebrate fauna utilising the Study Area. No sampling for invertebrates or aquatic species occurred. The information available on the identification, distribution and conservation status of invertebrates is generally less extensive than that of vertebrate species.

Variable	Impact on survey outcomes
Determination	The taxonomy and conservation status of the Western Australian flora and fauna is dynamic. This report was prepared with reliance on taxonomy and conservation current at the time issuing, but it should be noted this may change.

4. Environmental context

4.1 Bioregion

The Study Area is located within the Swan Coastal Plain Interim Biogeographic Regionalisation of Australia (IBRA) Region, Perth (Swan Coastal Plain) Sub-Region. "The Swan Coastal Plain is a low lying coastal plain, mainly covered with woodlands. It is dominated by Banksia or Tuart on sandy soils, *Casuarina obesa* on outwash plains, and paperbark in swampy areas. In the east, the plain rises to duricrusted Mesozoic sediments dominated by Jarrah woodland ... Three phases of marine sand dune development provide relief. The outwash plains, once dominated by *C. obesa* – Marri [*Corymbia calophylla*] woodlands and *Melaleuca* shrublands, are extensive only in the south. The Perth subregion is composed of colluvial and aeolian sands, alluvial river flats, coastal limestone, heath and/or Tuart woodlands on limestone, *Banksia* and Jarrah [*Eucalyptus marginata*] – *Banksia* woodlands on Quaternary marine dunes of various ages, Marri on colluvial and alluvials, and includes a complex series of seasonal wetlands which also includes Rottnest, Carnac and Garden Islands. Rainfall ranges between 600 and 1000 mm annually and the climate is Mediterranean. The subregional area is 1, 333, 901 hectares (ha)" (Mitchell, Williams and Desmond, 2002).

4.2 Conservation areas

A search of NatureMap (DPaW, 2007–) did not identify any DPaW conservation areas within the Study Area.

4.3 Environmentally Sensitive Areas

ESAs are declared by a notice under Section 51B of the EP Act. Table 8 outlines the aspects of areas declared as ESAs (under the *Environmental Protection (Clearing of Native Vegetation) Regulations 2004* – Reg 6) and provides an assessment of relevance to the Study Area of each aspect (DPaW, 2012a; Government of Western Australia, 2012). The ESAs within the Study Area are mapped in Figure 2 (Appendix A). Five of eleven aspects of ESAs are relevant to the Study Area.

Table 8 Relevance of aspects of Environmentally Sensitive Areas

Aspects of Environmentally Sensitive Areas relevant to the Study Area	Aspects of Environmentally Sensitive Areas not relevant to the Study Area
A defined wetland and the area within 50 m of the wetland.	A declared World Heritage property as defined in Section 13 of the EPBC Act.
Wetlands are present in the Study Area corridor and High Wycombe area (see Section 4.5).	Not relevant to the Study Area as there are no World Heritage Sites in the Study Area (DotE, 2012).
The area covered by vegetation within 50 m of rare flora, to the extent to which the vegetation is continuous with the vegetation in which the rare flora is located.	An area that is registered on the Register of the National Estate (RNE), because of its natural values, under the <i>Australian Heritage Commission Act 1975</i> of the Commonwealth.
Rare (threatened) flora have been previously recorded in the High Wycombe area (see Section 5.5.2).	Not relevant to the Study Area as the RNE is no longer in effect.

Aspects of Environmentally Sensitive Areas relevant to the Study Area	Aspects of Environmentally Sensitive Areas not relevant to the Study Area		
The area covered by a TEC.	The areas covered by the following policies:		
The buffers of four TEC are present in the Study Area corridor and High Wycombe area (see Section 5.4).	a. The Environmental Protection (Gnangara Mound Crown Land) Policy 1992. Gnangara Mound is present north of Perth. Therefore, this aspect is not relevant to the Study Area.		
	b. The Environmental Protection (Western Swamp Tortoise Habitat) Policy 2002. The only wild populations of western swamp tortoises are located at Twin Swamps and Ellen Brook Nature Reserves (on the Swan Coastal Plain within the Perth Metropolitan area), approximately 40 km north of the Study Area. Therefore, this is not relevant to the Study Area.		
A Bush Forever Site listed in "Bush Forever" Volumes 1 and 2 (Government of Western Australia, 2000).	Protected wetlands as defined in the Environmental Protection (South West Agricultural Zone Wetlands) Policy 1998.		
Bush Forever Sites are within the Study Area corridor and High Wycombe area (see Section 4.4).	This policy area does not include the area defined as the Swan Coastal Plain in Schedule 1 to the SCPL. Therefore, this is not relevant to this Study Area.		
Areas of fringing native vegetation in the policy area as defined in the <i>Environmental Protection (Swan and Canning Rivers) Policy</i> 1997.	The areas covered by the lakes to which the Environmental Protection (Swan Coastal Plain Lakes) Policy 1992 (SCPL) (EPP Lakes) applies.		
This is relevant to the Project as the Study Area corridor and Swan River to Domestic Terminal area intersects the Swan River.	No EPP Lakes are present within the Study Area (see Section 4.5.2).		

(DPaW, 2012a and Government of Western Australia, 2012)

4.4 Bush Forever

The Bush Forever Strategy is a 10 year strategic plan which formally commenced in 2000 to protect approximately 51,200 ha of regionally significant bushland within approximately 290 Bush Forever Sites. This strategy represents, where achievable, a target of at least 10 percent of each of the original 26 vegetation complexes of the Swan Coastal Plain portion of the Perth Metropolitan Region (Government of Western Australia, 2000).

The Study Area corridor and High Wycombe area intersects two Bush Forever Sites (Figure 2, Appendix A). The details of these Sites are provided in Table 9.

Both Sites are listed has being part of a "regionally significant fragmented bushland/wetland linkage" which is a "regionally significant but not contiguous linkage of bushland/wetland areas" (Government of Western Australia, 2000). These areas are of particular significance as they

provide corridors through otherwise highly cleared lands and provide linkages of regional

Table 9 Bush Forever Sites within the Study Area

Site number	Site name	Size (ha)	Landscape features	Vegetation and flora	Selection criteria met	Linkages*	Relation to Study Area
45	Poison Gully, High Wycombe	11.6	 Vegetated wetland Creek Vegetated upland 	 [†]FCT 3a: Eucalytpus calophylla (now Corymbia calophylla)—Kingia australis woodlands on heavy soils Uplands: E. calophylla and E. wandoo Woodland. E. calophylla, E. marginata and Allocasuarina fraseriana Open Woodland Wetlands: E. calophylla Open Forest 	 Representation of ecological communities Rarity General criteria for the protection of wetland, streamline and estuarine fringing vegetation and coastal vegetation 	 Adjacent bushland to the south Part of Greenway 52 Part of a regionally significant fragmented bushland/wetland linkage 	This Bush Forever Site is located in the far east of the Study Area corridor and High Wycombe area, near the intersection of Dundas and Maida Vale Roads.
386	Perth Airport and Adjacent Bushland	629.5	 Open water Vegetated wetlands Vegetated uplands 	 FCT 4: Melaleuca preissiana damplands FCT 5: Mixed shrub damplands FCT 7: Herb-rich saline Shrublands in clay pans [†]FCT 11: Wet forests and woodlands FCT 12: Melaleuca teretifolia and/or Astartea aff. fascicularis Shrublands [†]FCT 15: Forests and woodlands of deep seasonal wetlands FCT 20a: Banksia attenuata woodlands over species-rich dense Shrublands FCT 20b: Eastern Banksia attenuata and/or Eucalyptus marginata woodlands (most northern occurrence) FCT 23a: Central Banksia attenuata – B. menziesii woodlands 	 Representation of ecological communities Diversity Rarity Scientific or evolutionary importance General criteria for the protection of wetland, streamline and estuarine fringing vegetation and coastal vegetation 	 No adjacent bushland Part of Greenways 26, 99, 109, 110 Part of a regionally significant fragmented bushland/wetland linkage 	This Bush Forever Site is located within the Perth Airport boundary. This Site was not accessed during the field survey and was interpreted using aerial photography. The Study Area crosses this Site. This will sever the ecological linkage of this site. However, the aerial photography shows much of the Site to the south has already been cleared and developed.

FCT Swan Coastal Plain Floristic Community Type (FCT) from Gibson et al. (1994)

(Government of Western Australia, 2000)

^{*} Linkages are areas are of particular significance as they provide corridors through otherwise highly cleared lands and provide linkages of regional significance (Government of Western Australia, 2000).

[†] Not sampled, types inferred

4.5 Wetlands

Many wetlands around the Study Area are considered to be damplands as there is rarely surface water (except for the occasional inundation during winter rains) and the areas are fully vegetated, often with species not associated with wetlands or riparian areas. In contrast, the Swan River is a perennial estuary/water body with the banks often associated with riparian vegetation.

4.5.1 Geomorphic wetlands

Wetlands include not only lakes with open water, but areas of seasonally, intermittently or permanently waterlogged soil. Approximately 25 percent of the Swan Coastal Plain between Moore River and Mandurah is classified as wetland (Hill et al., 1996).

Though extensive in area, not all wetlands retain significant ecological values due to the concentration of urban and agricultural development in the region. Most wetlands have been cleared, filled or developed over, leaving only 20 percent of all the wetlands that were present on the Swan Coastal Plain prior to European settlement. Of these, an estimated 15 percent of the wetland area has retained high ecological values (Hill et al., 1996).

Categorisation of wetlands has been undertaken by Hill et al. (1996), delineating the Swan Coastal Plain into levels of protection and management categories:

- Conservation Category Wetlands are wetlands that support high levels of attributes and functions.
- Resource Enhancement Wetlands are those that have been partly modified but still support substantial functions and attributes.
- Multiple Use Wetlands are classified as those wetlands that have few important ecological attributes and functions remaining.

A proposal that is likely to have a significant impact on a wetland of high conservation significance, such as a conservation category wetland, is considered to be a significant proposal under Section 38 of the EP Act for referral to the EPA.

The Geomorphic Wetlands Swan Coastal Plain dataset displays the location, boundary, geomorphic classification (wetland type) and management category of wetlands on the Swan Coastal Plain.

The Geomorphic Wetlands Swan Coastal Plain dataset identifies 10 geomorphic wetlands within the Study Area boundary (Table 10). The locations of these geomorphic wetlands are presented in Figure 3 (Appendix A).

Table 10 Geomorphic wetlands within the Study Area (west-east)

UFI	Name	Classification/Evaluation	Relation to Study Area
8420	Claughton Reserve	Estuary-Water body/Conservation Category	Small portion (confined to riparian area of river) intersected by Study Area within the West of Swan River area.
8431	_	Sumpland/Multiple Use	Portion of wetland intersected by Study Area north of Guildford Road and within the West of Swan River area.

UFI	Name	Classification/Evaluation	Relation to Study Area
13384	-	Estuary- Peripheral/Multiple Use	Small portion (confined to riparian area of river) intersected by Study Area within the West of Swan River area.
8571	Swan River Estuary	Estuary-Water body/Conservation Category	
13316	Swan River Estuary	Estuary-Water body/Conservation Category	
15264	-	Dampland/Multiple Use	Occurs within Perth Airport portion of Study Area and within the Swan River Domestic Terminal area.
15058	Horrie Miller/Perth Airport	Dampland/Multiple Use	Occurs within Perth Airport portion of Study Area. Further assessment may be required.
15314	-	Palusplain/Multiple Use	Occurs within Perth Airport portion of Study Area. Further assessment may be required.
8823	-	Sumpland/Resource Enhancement	Occurs within Perth Airport portion of Study Area. Further assessment may be required.
13977	-	Palusplain/Resource Enhancement	A portion of this wetland is intersected by the Study Area corridor and High Wycombe area.

(Hill et al., 1996)

A number of the wetlands within the Perth Airport are damplands or palusplain, which rarely (if ever) have standing water, or even waterlogged soil, and which do not support wetland dependent vegetation. The water table has reduced in localised areas as a result of bore water extraction, the construction of a number of deep drains and, possibly, reducing rainfall. As a result of this reduced level, areas that may have previously shown surface water over the winter and spring months and which supported primarily wetland dependent vegetation have also reduced, and the vegetation has been partially replaced by dryland Banksia woodland.

Multiple Use wetlands have no, or extremely limited, amounts of native vegetation remaining, and are generally categorised by pasture grasses or weeds, or other cleared areas. They may retain some hydrological function, but due to lowering groundwater levels, this may also be reduced.

4.5.2 Swan Coastal Plain Lakes

An Environmental Protection Policy (EPP) has been prepared under Part III of the EP Act (the *Environmental Protection (Swan Coastal Plain Lakes) Policy 1992* (SCPL)). The EPP establishes:

- The basis on which the portion of the environment to which the policy relates to is to be protected
- The basis on which pollution of, or environmental harm to, the portion of the environment to which the policy relates to is to be prevented, controlled or abated

This SCPL protects the environmental values of selected wetlands on the Swan Coastal Plain (EPP Lakes). A wetland was gazetted under this EPP if it contained an area of standing water of more than 1000 square metres as at 1 December 1991.

The SCPL prohibits the filling, excavating, mining, discharge or disposal of effluent into and construction or alteration of a drainage system for the drainage into or out of an identified wetland, unless authorised under the Act or under any other written law.

No wetlands protected under the SCPL have been identified in the Study Area (Government of Western Australia, 2012). The nearest EPP Lake is located within the airport land, approximately 40 m north of the Study Area (Figure 3, Appendix A).

4.5.3 Wetlands of national significance

Nationally important wetlands are listed in the *Directory of important wetlands in Australia* (DSEWPaC, 2010). A proposal that is likely to have a significant impact on a wetland of high conservation significance is considered to be a significant proposal under Section 38 of the EP Act for referral to the EPA.

There are two nationally important wetlands within the Study Area boundary (DSEWPaC, 2010) which are described in Table 11 and mapped in Figure 3 (Appendix A):

Table 11 Wetlands of national significance present within the Study Area

Wetland	Wetland type	Description	Relevance to assessment
Perth Airport Woodland Swamps	Inland wetlands Human- made wetland	 Seasonal/intermittent freshwater ponds and marshes on inorganic soils; includes sloughs, potholes; seasonally flooded meadows, sedge marshes Freshwater swamp forest; seasonally flooded forest, wooded swamps; on inorganic soils Excavations; gravel pits, borrows pits, mining pools 	Located within the Perth Airport Boundary. The entire alignment crosses this mapped wetland for a length of approximately 400 m. Further assessment may be required.
Swan– Canning Estuary	Marine and coastal zone wetland	 Estuarine waters; permanent waters of estuaries and estuarine systems of deltas Intertidal mud, sand or salt flats Intertidal marshes. includes saltmarshes, salt meadows, saltings, raised salt marshes, tidal brackish and freshwater marshes 	A small portion of this estuary is located at the intersection of the Study Area with the Swan River.

(DSEWPaC, 2010)

4.5.4 Wetlands of international significance

Wetlands of International Significance are listed under the Ramsar Convention, which is an International treaty that covers the conservation of internationally important wetlands. A search of the EPBC Act Protected Matters Search Tool (DotE, 2012) did not identify any Ramsar-listed sites within 5 km of the Study Area.

4.6 Coastal saltmarsh

The Threatened species Scientific Committee (the Committee) provided its Conservation Advice on the *Subtropical and Temperate Coastal Saltmarsh* to the Minister for the Environment, Heritage and Water (DSEWPaC, 2013b). The Minister accepted the advice of the Committee in 2013 and amended the list of threatened ecological communities under section 184 of the EPBC Act to include this community in the Vulnerable category.

The ecological community is the assemblage of organisms including and associated with coastal subtropical and temperate saltmarsh. There are a number of key diagnostic characteristics for describing the Coastal Saltmarsh ecological community relating to location, occurrence, connectivity, characteristic species, composition of species, proportional cover and patch size (DSEWPaC, 2013b).

The community occurs within a narrow margin of the Australian coastline, within the subtropical and temperate climatic zones south of the South-east Queensland IBRA bioregion boundary at 23° 37' S latitude along the east coast and south of (and including) Shark Bay at 26° S on the west coast (DSEWPaC, 2013b).

This community lies in coastal areas under regular or intermittent tidal influence. In the southern latitudes, saltmarsh is often the main vegetation type in the intertidal zone and often occurs in association with estuaries. The Coastal Saltmarsh community within Perth commonly consists of salt-tolerant vegetation including grasses (e.g. *Sporobolus virginicus*), herbs (e.g. *Carpobrotus modestus, Tecticornia* spp.), sedges (e.g. *Baumea juncea, Ficinia nodosa, Gahnia trifida, Isolepis cernua* var. *cernua*), rushes (e.g. *Juncus kraussii*) and shrubs (e.g. *Rhagodia baccata*) (DSEWPaC, 2013b).

Presence of community within the Study Area

Prior to European settlement, the Swan River was mostly brackish, with a tidal amplitude of about one-fifth of that experienced at Perth coastal beaches (approximately 10–90 cm) (Swan River Trust, 2013). Subsequent removal of the Fremantle bar and dredging of the nearby flood delta in the late 1800s resulted in four-fifths of the ocean tide transmitted into the estuary (Swan River Trust, 2013). The Swan and Canning rivers are now a permanently open estuary that changes from fresh/brackish conditions in winter and spring, to salty conditions during summer and autumn (Swan River Trust, 2013).

One species commonly found in coastal marshes (*Ficinia nodosa*) was observed within the Study Area (DSEWPaC, 2013b). However, the presence of this species does not necessarily indicate the presence of the Coastal Saltmarsh ecological community. It is possible that prior to historical dredging, the upper Swan River (within the Study Area) was far enough upstream to be out of significant tidal influence. As a result, the assemblage of species present on the banks of the Swan River within the Study Area may be relatively recent and may not represent the Coastal Saltmarsh community.

Currently Western Australia does not have a state-wide vegetation classification system that identifies saltmarsh outside of a local or regional scale. However, the following major vegetation units generally correspond to the Coastal Saltmarsh ecological community (G. Keighery, pers. comm cited in DSEWPaC, 2013b):

- Samphire shrublands dominated by *Tecticornia* species or *Sarcocornia* saltmarsh complex
- Grasslands dominated by Sporobolus virginicus
- Sedgelands dominated by Bolobschoenus caldwellii or Gahnia trifida
- Rushlands dominated by Juncus kraussiii
- Herblands dominated by Wilsonia humilis/W. backhousei with Frankenia spp. and Triglochin striata or Samolus repens.

None of the above listed vegetation units were recorded within the Study Area along the Swan River.

A key diagnostic characteristic for describing the Coastal Saltmarsh ecological community includes the proportional cover by tree canopy such as Melaleucas or Casuarinas is not greater than 50% (DSEWPaC, 2013b). Remnant *Casuarina obesa* Low Woodland was identified as the vegetation type occurring within the Study Area along both sides of the Swan River. This vegetation type occupies up to 0.74 ha including both sides of the river. A review of the information collected during the survey determined that the proportional cover by trees within this vegetation type is probably greater than 50%.

Furthermore patches of the Coastal Saltmarsh ecological community that are <0.1 ha and occur in isolation (as opposed to part of a mosaic) are excluded from the ecological community (DSEWPaC, 2013b). The relatively continuous canopy of the remnant *Casuarina obesa* Low Woodland on both sides of the Swan River through the Study Area, probably prohibits any area

that may have ground cover species characteristic of the community exceeding 0.1 ha (e.g. areas of approximately 25 m x 40 m). However according to DSEWPaC (2013b), it is not uncommon for the Coastal Saltmarsh ecological community to occur in a mosaic (for example, interspersed with other vegetation or bare sandy or muddy substrate), and thus consist of small patch sizes within that mosaic. Patches of saltmarsh within a mosaic that are within 30 m of each other, and collectively are 0.1 ha or more are considered to be the ecological community (DSEWPaC, 2013b). The relatively continuous canopy of the remnant *Casuarina obesa* Low Woodland probably prohibits connectivity of any patches smaller than 0.1 ha that may have ground cover species characteristic of the community.

During the construction of the Tonkin Highway Bridge (circa 1984) over the Swan River the area was subject to disturbance including surcharging. Surcharging is a ground improvement technique required to reduce long-term total and differential settlements. In this case it involved placing fill (up to 18 m high) in the footprint of the existing bridge hence disturbing the original vegetation. The fill extended to within approximately 30 m of the river bank. The surcharge fill extended below and within the vicinity of the bridge but probably not throughout the entire Study Area.

Considering the above information it is unlikely that the Coastal Saltmarsh ecological community occurs within the Study Area.

5. Vegetation & flora results

5.1 Broad vegetation types

Broadscale vegetation mapping of the area undertaken by Beard (1979) identified the following three vegetation associations within the Study Area (Table 12):

- Medium very sparse woodland; jarrah, with low woodland; *Banksia* & Casuarina (association 1001).
- Medium woodland; marri & river gum (association 1009).
- Mosaic: Medium forest; jarrah-marri/Low woodland; banksia/Low forest; teatree/Low woodland. Casuarina obesa (association 1018).

Heddle et al. (1980) mapped the Perth area at a finer scale than Beard (1979). The Heddle et al. (1980) mapping identified three vegetation complexes within the Study Area (Table 13):

- Swan Complex (complex 33).
- Southern River Complex (complex 42).
- Bassendean Complex central and south (complex 44).

Within the Study Area vegetation has been cleared and modified and not all of the mapped extents of the vegetation complexes are likely to still occur within the Study Area.

5.2 Broad vegetation extent & status

A vegetation type is considered underrepresented if there is less than 30 percent of its original distribution remaining. From a purely biodiversity perspective (not taking into account any other land degradation constraints) there are several key criteria now being applied to vegetation (EPA, 2000):

- The "threshold level" below which species loss appears to accelerate exponentially at an ecosystem level is regarded as being at a level of 30 percent of the pre-European/pre-1750 extent of the vegetation type.
- A level of 10 percent of the original extent is regarded as being a level representing Endangered.
- Clearing which would put the threat level into the class below should be avoided.

The EPA Guidance Statement No. 10 (EPA, 2006b) assesses the extent of Heddle et al. (1980) vegetation complexes currently present against predicted pre-European extents (Table 13). According to the EPA Guidance Statement No. 10 (EPA, 2006b), it is important to note that the "remnant native vegetation mapping used in the Region is derived from dated aerial photography (in this case 1998) with limited ground-truthing. As a consequence the percentages of ecological communities remaining are generally an overestimate of the native vegetation remaining at present and at the date of this Guidance [2006b]. The principal factors contributing to this overestimation are:

- The preferential mapping of treed landscapes, leading to some mapping of areas that are parkland cleared or completely degraded.
- The inclusion of areas that are approved for clearing through development approvals and/or clearing permits.
- Some areas that have been cleared since the time of the aerial photography.

It is therefore important to bear these constraints in mind when the percentage of the vegetation complexes remaining is approaching 30 percent. Furthermore, as a result of the clearing of the Swan Coastal Plain since 1998, it is likely that the actual percentage remaining of each vegetation type is less.

The local and regional impacts on the loss of vegetation associations have been assessed using the mapped extent of the Beard (1979) vegetation, as adapted by Shepherd et al. (2002) and maintained by DPaW (Government of Western Australia, 2013), and the extent of Heddle (1980) associations remaining (EPA, 2006b). As indicated in Table 12 and Table 13, all vegetation associations and complexes have less than 30 percent of their pre-European/pre-1750 extents remaining. However, the Study Area is considered to lie within a constrained area of the Swan Coastal Plain (EPA, 2006b). In this case, Beard (1979) vegetation association 1018 and all of the Heddle et al. (1980) vegetation complexes are present at greater than 10 percent of their pre-European/pre-1750 extents remaining and would not, therefore, be considered critical assets (EPA, 2006a). Vegetation associations 1001 (in the Cities of Bayswater and Belmont and the Shire of Kalamunda) and 1009 (in the City of Bayswater) are present at less than 10 percent of their pre-European extent remaining, and may, therefore, be considered critical assets at the Local Government Area level.

Table 12 Beard (1979)/Shepherd et al. (2002) vegetation associations, extent & status within the Study Area

Vegetation association		Mapped extent within the Study Area (ha)	Region	Total pre- European extent (ha)	Current extent (ha)	Percent remaining	Percent current extent protected (IUCN I–IV) for conservation (proportion of Pre-European extent)
1001	Medium very sparse woodland;	175	State	57,410.23	14,151.90	24.65	1.14
	jarrah, with low woodland; Banksia & Casuarina		IBRA bioregion	57,410.23	14,151.90	24.65	1.14
			IBRA sub- region	57,410.23	14,151.90	24.65	1.14
			City of Bayswater	2666.23	13.78	0.52	-
			City of Belmont	2439.45	152.98	6.27	-
			City of Swan	8868.66	2393.76	26.99	0.02
			Shire of Kalamunda	1473.91	121.10	8.22	1.50
1009	Medium woodland; marri & river	46.9	State	18,225.88	2996.62	16.44	0.02
	gum		IBRA bioregion	18,184.82	2974.48	16.36	0.02
			IBRA sub- region	18,183.22	2974.15	16.36	0.02
			City of Bayswater	496.08	39.08	7.88	-
			City of Belmont	301.09	35.37	11.75	-
1018	Mosaic: Medium forest; jarrah- marri/Low woodland; banksia/Low forest; teatree/Low woodland. <i>Casuarina obesa</i>	woodland; ow forest; teatree/Low	State	14,059.36	2612.30	18.58	0.73
			IBRA bioregion	14,059.36	2612.30	18.58	0.73
			IBRA sub- region	13,946.31	2587.32	18.55	0.73
			City of Belmont	1198.76	237.66	19.83	-
			Shire of Kalamunda	450.10	54.61	12.13	0.73

(Beard, 1979; Government of Western Australia, 2012, 2013; Shepherd et al., 2002)

Percent remaining greater than 10 percent.

Percent remaining less than 10 percent.

Table 13 Heddle (1980) vegetation complexes, extent & status within the Study Area

Vegetation complex		Landform	Mapped extent within the Study Area	Total pre- 1750 extent	Present extent (1997/98) (ha)	Percent of each remaining (1997/98)	Percent of each remaining of pre-1750 extent in secure tenure	
			(ha)	(ha)	in the System 6/part System 1 area*		(2002)	
33	Swan Complex: Fringing woodland of Eucalytpus rudis — Melaleuca rhaphiophylla with localised occurrence of low open forest of Casuarina obesa and M. cuticularis.	Pinjarra Plain	25.9	15 783	2 454	15.6	0.0	
42	Southern River Complex: Open woodland of <i>E. calophylla</i> [now <i>Corymbia calophylla</i>] — <i>E. marginata</i> — <i>Banksia</i> species with fringing woodland of <i>E. rudis</i> — <i>M. rhaphiophylla</i> along creek beds.	Combinations of Bassendean Dunes/Pinjarra Plain/Spearwood Dunes	144	57 979	11 501	19.8	1.5	
44	Bassendean Complex — central and south: Vegetation ranges from woodland of <i>E. marginata</i> — <i>C. fraseriana</i> [now <i>Allocasuarina fraseriana</i>] — <i>Banksia</i> spp. to low woodland of <i>Melaleuca</i> species, and sedgelands on the moister sites. This area includes the transition of <i>E. marginata</i> to <i>E. todtiana</i> in the vicinity of Perth.	Bassendean Complex	68.3	87 477	23 624	27.0	0.7	

(EPA, 2006b, Government of Western Australia, 2000 and Heddle et al., 1980)

Percent remaining greater than 10 percent.

Percent remaining less than 10 percent.

System 6 comprises a large proportion of the IBRA Jarrah Forest Bioregion and the central portion of the Swan Coastal Plain Bioregion. System 1 is to the south west of System 6 and covers the southern end of the Swan Coastal Plain Bioregion (south of Bunbury), and parts of the Jarrah Forest and Warren Bioregions. The System 1 boundary follows the southwest System 6 boundary to the Blackwood River and then continues along the Blackwood River to its mouth, at Augusta" (Environmental Protection Authority, 2006b).

5.3 Vegetation type & condition

The majority of the Study Area outside of the Perth Airport boundary has been highly disturbed and includes areas of roadside (alongside Tonkin Highway and Dundas Road), housing and open space. The Study Area crosses the Swan River at Tonkin Highway. The vegetation of the Study Area has been cleared or modified, with areas of revegetation with native and non-native species, particularly along Tonkin Highway. Patches of remnant vegetation were observed at the western boundary of the Perth Airport estate, near Brearley Avenue/Dunreath Drive, and in the east of the Study Area. The over- and midstorey of these areas was mostly intact while the understorey was often dominated by introduced species.

5.3.1 Vegetation type

Previous studies by GHD (2012) identified the vegetation around the Tonkin Highway and Stanton Road intersection as:

- Low Open Woodland of remnant Eucalyptus species over disturbed/cleared areas (V10)
- Planted native species (P)

Mattiske Consulting Pty Ltd (2008) mapped the vegetation of the Study Area within the Airport land (inaccessible to the GHD survey team) as:

- Degraded Low Forest to Low Woodland of Eucalyptus marginata, Banksia attenuata and Banksia menziesii with occasional Allocasuarina fraseriana over Acacia pulchella, Patersonia occidentalis and Dasypogon bromeliifolius (I1) (corresponds with GHD, 2012 V10).
- Degraded Woodland of Corymbia calophylla, Melaleuca preissiana and Banksia spp. over Xanthorrhoea preissii, Hypocalymma angustifolium and Dasypogon bromeliifolius, Pericalymma ellipticum var. ellipticum and Astartea scoparia (J1).
- Pasture Areas (PA).
- Degraded Woodland of *Corymbia calophylla* over *Kingia australis* and *Xanthorrhoea preissii* over low shrubs and herbs (J2).
- Open water with aquatic herbs and emergent sedges and rushes (OW).
- Degraded woodland of Melaleuca rhaphiophylla, Eucalyptus rudis, Melaleuca preissiana with occasional Banksia ilicifolia over Lyginia barbata, Xanthorrhoea preissii, Hypocalymma angustifolium, Dasypogon bromeliifolius, Pericalymma ellipticum var. ellipticum and Astartea scoparia (K1).
- Low Forest to Low Woodland of *Banksia attenuata*, *Banksia menziesii* and *Eucalyptus todtiana* over *Hibbertia hypericoides*, *Alexgeorgea nitens* and *Mesomelaena pseudostygia* (H1).

A total of ten vegetation types were identified during the 2012 and 2013 surveys of the Study Area. These vegetation types align with the vegetation types of the previous surveys in the area. In addition, roads, infrastructure, completely altered areas and open water were identified. The vegetation types are mapped in Figure 4 (Appendix A) and described in Table 14.

Table 14 Vegetation types present in the Study Area

Vegetation type	Vegetation description	Area of Study Area (recorded by GHD) (ha)	Representative photograph
Remnant vegetation	Low Open Woodland of remnant <i>Eucalyptus marginata</i> and <i>Banksia</i> spp. over a native mid-storey of mixed native species and an understorey of either mixed native species or weedy grasses and herbs.	2.7	
	Remnant Casuarina obesa Low Woodland over an understorey of Juncus sp. and weedy grasses and herbs.	0.74	

Vegetation type	Vegetation description	Area of Study Area (recorded by GHD) (ha)	Representative photograph
	Remnant <i>Melaleuca cuticularis</i> Open Shrubland over an understorey of weedy grasses and herbs.	0.37	
	Remnant <i>Eucalyptus rudis</i> Open Woodland over completely altered understorey in drainage lines.	2.6	
	Remnant Eucalyptus marginata/E. rudis/Corymbia calophylla Woodland over a mid-storey and understorey of mixed native species.	3.1	

Vegetation type	Vegetation description	Area of Study Area (recorded by GHD) (ha)	Representative photograph
	Sparse Woodland of <i>Corymbia calophylla</i> over <i>Xanthorrhoea preissii</i> and low shrubs, sedges and herbs.	2.2	
	Corymbia calophylla, Melaleuca preissiana and Banksia spp. over Xanthorrhoea preissii, Hypocalymma angustifolium and Dasypogon bromeliifolius, Pericalymma ellipticum var. ellipticum and Astartea scoparia	2.6	
	Scattered Corymbia calophylla and/or Eucalyptus rudis over a weedy understorey.	12	

Vegetation type	Vegetation description	Area of Study Area (recorded by GHD) (ha)	Representative photograph
Planted vegetation	Plantings of non-native species over an understorey of weedy grasses and herbs.	2.9	
	Areas rehabilitated with native and non-native species following roadworks.	29	

5.3.2 Vegetation condition

The vegetation condition of the Study Area identified by GHD ranged from *Excellent* to *Completely Degraded* (Table 15). The majority (153 ha) of the Study Area was *Degraded*— *Completely Degraded* and *Completely Degraded*. These areas have been cleared in the past and are now dominated by weedy grass and herb species, with the occasional revegetation with native and introduced species. Other anthropogenic disturbances, such as dumping of rubbish and vehicle impacts, were evident across the Study Area.

There are a small number of patches of remnant vegetation (one in the far eastern extent of the Study Area and one at the western boundary of the Perth Airport) which were in better condition. Vegetation within the western boundary of the Perth Airport was in *Good* to *Good–Degraded* condition. Patches of vegetation within the High Wycombe area were in *Excellent* (5.1 ha within the Poison Gully Bush Forever Site and alongside Dundas Road) and *Good* (0.30 ha alongside Dundas Road) condition. These areas had a higher proportion of native species, which had slowed invasion of weedy species.

Vegetation condition mapping of the Study Area is shown at Figure 5 (Appendix A).

Mattiske Consulting Pty Ltd (2008) identified a range in vegetation types within the Perth Airport boundary of the Study Area, from *Excellent* to *Completely Degraded*.

Table 15 Vegetation condition of the Study Area (recorded by GHD, 2013a & during the September 2013 survey)

Vegetation condition	Area (ha)
Excellent	5.1
Very Good–Good	1.7
Good	0.3
Good-Degraded	3.4
Degraded	1.4
Degraded–Completely Degraded	11
Completely Degraded	142
Inaccessible	53
Swan River	1.9

(GHD, 2013a and the results of the September, 2013 surveys)

Dieback

The site is considered to occur in an area at risk of *Phytophthora cinnamomi* fungal infection, commonly known as Dieback. Dieback is found throughout the southern extent of Western Australia in areas with susceptible plant species that receive rainfall in excess of 400 mm/year (Dieback Working Group, 2010).

There are dieback indicator species present on site, including, *Banksia* species, *Macrozamia riedlei*, and *Xanthorrhoea preissii*. No obvious signs of distress or infection in these indicator species were observed. The majority of the Study Area is considered to be 'uninterpretable', i.e. there is insufficient native vegetation remaining to provide evidence of the presence or absence of the dieback. No specific dieback testing was undertaken and determination of dieback

presence is often difficult as it may not be observed during a visual survey. In the few remaining bushland areas within the Study Area the presence of dieback infection can only be correctly determined through detailed assessment by a highly experienced interpreter and/or with appropriate testing of soil samples.

5.4 Threatened & Priority Ecological Communities

Ecological communities are defined as naturally occurring biological assemblages that occur in a particular type of habitat (English & Blythe, 1997). TECs are ecological communities that have been assessed and assigned to one of four categories related to the status of the threat to the community i.e. *Presumed Totally Destroyed*, *Critically Endangered*, *Endangered* and *Vulnerable*.

The DPaW maintains a list of TECs which have been endorsed by the Minister for the Environment (August 2010). Some of these TECs are protected under the EPBC Act. DPaW-listed ecological communities are given special consideration in environmental impact assessments and have special status under the land clearing regulations of the EP Act. The EPA position on TECs states that proposals which may result in a significant impact on TECs are likely to require formal assessment.

DPaW also maintains a list of PECs. PECs are not listed under any formal Federal or State legislation but are considered by DPaW as important as whole ecosystems (including their processes and communities). *Priorities 1, 2* and 3 PECs are ecological communities that are adequately known; are rare but not threatened, or meet criteria for *Near Threatened*; PECs that have been recently removed from the threatened list are placed in *Priority 4*. These ecological communities require regular monitoring. *Conservation Dependent* ecological communities are placed in *Priority 5*.

Further information on the conservation codes is provided in Appendix C.

Desktop searches (DSEWPaC, 2012a and DPaW, 2007) did not identify any PECs within 5 km of the Study Area. The buffers of four occurrences of TECs occur within the Study Area and an additional 72 occurrences of TECs occur within 5 km of the Study Area (Table 16) (Appendix D) (mapped in Figure 2, Appendix A). It should be noted that DPaW provides locations for TECs and PECs with a buffer placed typically at a 500 metre (m) radius around the community. As such, the TEC/PEC may not be present within the entire extent of the buffer area.

Three of the vegetation types identified within the Study Area during the 2013 GHD surveys had affinities with five TECs that have previously been recorded within 5 km of the Study Area (Table 16). In addition, Mattiske Consulting Pty Ltd (2008) suggested similarities between identified vegetation types within the Perth Airport boundary and four TECs. The Morgan (2013) survey of part of the Study Area suggested similarities between identified vegetation units and four TECs.

Table 16 Assessment of Threatened Ecological Communities located within 5 km of the Study Area

Threatened Ecological Status Occurrences of DPaW Assessment of vegetation within the Study Area buffers			Assessment of vegetation within the Study Area				
	State	Federal	Within Study Area	Additional within 5 km of Study Area	GHD	Mattiske Consulting Pty Ltd (2008)	Morgan (2013)
Eucalyptus calophylla [now Corymbia calophylla] – Kingia australis woodlands on heavy soils, Swan Coastal Plain (SCP3a)	Critically Endangered	Endangered	1	7	The following two vegetation types may align with these TECs: • "Remnant Eucalyptus marginata/E. rudis/Corymbia calophylla Woodland over a mid-storey and understorey of mixed native species". Approximately 3.1 ha of this	Community J2 shared some similarities with this TEC.	Corymbia calophylla (Marri) open woodland (regrowth) over Verticordia densiflora var. densiflora low open heath over Caustis dioica, Hypolaena exsulca very open sedgeland/herbland.
Eucalyptus calophylla [now Corymbia calophylla] – Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (SCP3c)	Critically Endangered	Endangered		2	 vegetation type was recorded within the High Wycombe area. "Sparse Woodland of Corymbia calophylla over Xanthorrhoea preissii and low shrubs, sedges and herbs". Approximately 2.2 ha of this vegetation type was recorded within the High Wycombe area. 	Community J1 shared some similarities with this TEC.	Not identified
Banksia attenuata and/or Eucalyptus marginata woodlands of the eastern side of the Swan Coastal Plain (SCP20b)	Endangered	-		3	The following vegetation type may align with these TECs: "Low Open Woodland of remnant <i>Eucalyptus marginata</i> and <i>Banksia</i> spp. over a native midstorey of mixed native species and an	Community I1 shared some similarities with this TEC.	Not identified
Banksia attenuata woodland over species rich dense shrublands (SCP20a)	Endangered	-		48	understorey of either mixed native species or weedy grasses and herbs". A total of 2.7 ha of this vegetation was recorded within the Swan River to Domestic Terminal area. This vegetation was degraded and has lost some of its structural integrity. However, this vegetation type contained some of the species that occur within these TECs.	Community J1 shared some similarities with this TEC.	Allocasuarina fraseriana low open woodland over Xanthorrhoea preissii open shrubland over Verticordia densiflora var. densiflora, Hibbertia hypericoides low shrubland over Alexgeorgea nitens, Caustis dioica open sedgeland/herbland/grassland.
Shrublands and woodlands of the eastern side of the Swan Coastal Plain (SCP20c)	Critically Endangered	Endangered		5		Not identified	 Allocasuarina fraseriana low open woodland over Xanthorrhoea preissii open shrubland over Verticordia densiflora var. densiflora, Hibbertia hypericoides low shrubland over Alexgeorgea nitens, Caustis dioica open sedgeland/herbland/grassland. Corymbia calophylla (Marri) open woodland (regrowth) over Verticordia densiflora var. densiflora low open heath over Caustis dioica, Hypolaena exsulca very open sedgeland/herbland.

Threatened Ecological Community (TEC)	Status		Occurrences of DPaW buffers		Assessment of vegetation within the Study Area		
	State	Federal	Within Study Area	Additional within 5 km of Study Area	GHD	Mattiske Consulting Pty Ltd (2008)	Morgan (2013)
Herb rich saline shrublands in clay pans (SCP07)	Vulnerable	Critically Endangered	3	1	Not identified	Not identified	Not identified
Southern wet shrublands, Swan Coastal Plain (SCP02)	Endangered	-		6	Not identified	Not identified	Not identified
Eucalyptus calophylla [now Corymbia calophylla] – Eucalytpus marginata woodlands on sandy clay soils of the southern Swan Coastal Plain (SCP3b) (identified in Morgan, 2013)	Vulnerable	-			Not identified	Not identified	Corymbia calophylla (Marri) open woodland (regrowth) over Verticordia densiflora var. densiflora low open heath over Caustis dioica, Hypolaena exsulca very open sedgeland/herbland.
Claypans of the Swan Coastal Plain (identified in DSEWPaC, 2013) – may be the same as SCP07 or SCP09 (Dense shrublands on clay flats). However, the DotE (DSEWPaC, 2013) search did not identify the State-listed TEC.	Vulnerable	Critically Endangered	occur wi	inity likely to thin the area" PaC, 2013)	Not identified	Not identified	Not identified
Total			4	72			

5.5 Flora

5.5.1 Flora diversity

Desktop reviews of the Western Australian Museum/DPaW NatureMap search reported 1056 flora species recorded within 5 km of the Study Area.

A total of 203 flora species from 53 families and 138 genera were recorded within the Study Area by GHD. This number includes 145 native species and 58 introduced/planted species. Dominant families recorded during the survey were:

Fabaceae: 29 taxaMyrtaceae: 23 taxaProteaceae: 19 taxa

5.5.2 Conservation significant flora

Species of significant flora are protected under both Federal and State legislation. Any activities that are deemed to have a significant impact on species that are recognised by the EPBC Act, and/or the WC Act can warrant referral to the DotE and/or the EPA.

In Western Australia, DPaW also maintains a list of Priority listed flora species. Conservation codes for Priority species are assigned by DPaW to define the level of conservation significance.

For the purposes of this assessment, all species listed under the EPBC Act, WC Act and DPaW Priority species are considered conservation significant. Further information on the conservation codes relevant to this report is provided in Appendix C.

GHD requested searches of the DPaW Threatened Flora (DEFL) and the Western Australian Herbarium (WAHERB) databases with a 5 km buffer around the Study Area. These records were collated with the Protected Matters Search Tool (PMST) and Western Australian Museum/DPaW NatureMap records with a search radius of 5 km. Three individuals of Conospermum undulatum (listed as Threatened under the WC Act and Vulnerable under the EPBC Act) have previously been recorded within the Study Area boundary. In addition, the searches identified 54 species of conservation significance as occurring or potentially occurring within 5 km of the Study Area (Appendix B).

A total of 27 individuals of the wavy-leaved smokebush (*Conospermum undulatum*) was recorded within the High Wycombe area during the Level 2 survey (Plate 1). These were observed within the "Sparse Woodland of *Corymbia calophylla* over *Xanthorrhoea preissii* and low shrubs, sedges and herbs" and within the Poison Gully Bush Forever Site (see Section 4.4) (vegetation type "Remnant *Eucalyptus marginata/E. rudis/Corymbia calophylla* Woodland over a mid-storey and understorey of mixed native species"). This species is an erect, compact shrub, growing from 0.6 m to 2 m high, producing in May to October woolly, white flowers held in an inflorescence positioned well above the leaves. The leaves taper towards the base and have three distinct, parallel veins and characteristic wavy margins (DSEWPaC, 2013a). Regionally, *C. undulatum* is found in a restricted area in fragmented remnant bushland in an area of approximately 7200 ha between the suburbs of High Wycombe and Martin, in the foothills of the Darling Scarp of Perth (DSEWPaC, 2013a). Suitable habitat is being cleared for development and roads or degraded due to climate change, invasive flora (weeds) and fauna (rabbit) species, disturbance by vehicles, dieback, inappropriate and/or changed fire regimes and lack of secure conservation land tenure (DSEWPaC, 2013a).

Scattered occurrences of *Calothamnus rupestris* (P4) was tentatively recorded within the "Low Open Woodland of remnant *Eucalyptus marginata* and *Banksia* spp. over a native mid-storey of mixed native species and an understorey of either mixed native species or weedy grasses and herbs" (Figure 4, Appendix A) during the Level 1 survey. *Calothamnus rupestris* generally occurs on granite outcrops, rocks and hillsides in the Northern Jarrah Forest, east of Perth with a disjunct population at Boyaga Rock (Department of Agriculture, 1987).

In addition, one Priority 4 species, *Eucalytpus caesia*, was identified in roadside plantings along Dundas Road within the High Wycombe area. This species is found on loam and granite outcrops in the Wheatbelt region of Western Australia.

Calothamnus rupestris and Eucalyptus caesia have been planted as ornamentals and within rehabilitation across the south-west of Western Australia and have become naturalised outside of their range. These species are commonly planted in urban environments and their presence within the Study Area is not considered to be a natural occurrence.

Likelihood of occurrence assessment

A likelihood of occurrence assessment of conservation significant species (based on the range, habitat requirements and previous records of the species) (Appendix D) determined that there are 27 species which may occur or have been recorded within the Study Area. The majority of these species are only predicted to occur within the remnant vegetation of the Study Area (within the Perth Airport, alongside Dundas Road (High Wycombe area) and within the Poison Gully Bush Forever Site). Of these 27 species, only *Conospermum undulatum* was identified during the field survey. As much of the Study Area is highly degraded, there is low potential for the other 26 species to occur within the majority of the Study Area.

Table 17 Conservation significant flora species possibly occurring or likely to occur within the Study Area

Taxa	Common name	Status	
		State	Federal
Andersonia gracilis	Slender Andersonia	Т	Е
Bolboschoenus medianus		P1	
Boronia humifusa		Т	
Byblis gigantea	Rainbow Plant	P3	
Caladenia huegelii	Grand Spider Orchid	Т	Е
Conospermum undulatum	Wavyleaf Smokebush	Т	V
Cyathochaeta teretifolia		P3	
Dampiera triloba		P1	
Grevillea curviloba subsp. incurva	Narrow curved-leaf Grevillea	Т	E
Haemodorum loratum		P3	
Halgania corymbosa		P3	
Hydrocotyle lemnoides	Aquatic Pennywort	P4	
Hydrocotyle striata		P1	
Hypocalymma sp. Cataby (G.J. Keighery 5151)		P2	
Isopogon drummondii		P3	
Jacksonia sericea	Waldjumi	P4	
Lasiopetalum bracteatum	Helena Velvet Bush	P4	
Lepyrodia curvescens		P2	
Macarthuria keigheryi		T	Е

Taxa	Common name	Status	
		State	Federal
Melaleuca viminalis		P2	
Platysace ramosissima		P3	
Schoenus griffinianus		P3	
Schoenus pennisetis		P1	
Thelymitra stellata	Star Sun Orchid	Т	
Thysanotus anceps		P3	
Verticordia fimbrilepis subsp. fimbrilepis		Т	E
Verticordia lindleyi subsp. lindleyi		P4	

A detailed likelihood of occurrence assessment is provided in Appendix D.

Conservation codes are provided in Appendix C

5.5.3 Introduced flora

The Study Area was highly disturbed, with roads, housing and other clearing a predominant feature. The majority of the Study Area was invaded by common weeds, including garden escapees. Furthermore, the understorey of areas of remnant vegetation was dominated by introduced species with 57 introduced/planted species identified during the GHD surveys. None of these species are listed as Weeds of National Significance or Declared Pests under the *Biosecurity and Agriculture Management Act 2007* (BAM Act) (which replaces the repealed *Agriculture and Related Resources Protection Act 1976*).









Plate 1 Conospermum undulatum (State Threatened & Federal Vulnerable) identified within the Study Area

6. Fauna

6.1 Desktop review

6.1.1 Existing fauna records

Excluding freshwater aquatic and marine species a *NatureMap* search located 271 fauna species recorded from within 5 km of the Study Area. The PMST predicts seven additional native fauna species to occur within this Study Area. Combining all database searches, a total of 278 fauna species are known or predicted to occur within 5 km of the Study Area.. These include:

- 22 mammals (17 native and five introduced)
- 210 birds (202 native and eight introduced)
- 11 frogs (all native)
- 35 reptiles (34 native and one introduced)

The diversity of fauna within the search area is considered high, particularly considering the location of the Study Area and surrounding land use (e.g. highly modified, predominantly urban and industrial). This high diversity is most likely because of the recent higher levels of survey effort associated with the nearby ongoing environmental impact assessment projects and the nearby conservation reserves including Munday Swamp, Gooseberry Hill National Park, Munday Regional Park, the Eric Singletone Bird Sanctuary, and parklands and reserves along the Swan River.

6.1.2 Conservation significant fauna

The conservation of fauna species and their significance status is currently assessed under both Federal (EPBC Act) and State (WC Act) Acts. Conservation significant fauna include those fauna listed under the EPBC Act, WC Act and the Priority list of fauna produced by DPaW. The conservation codes for fauna under the various Acts/list are detailed in Appendix C.

Of the 264 native terrestrial fauna species recorded from the databases, 34 species (23 birds, seven mammals, three reptiles and one invertebrate) are listed under one or more of the EPBC Act, WC Act or DPaW Priority list. A list of conservation significant fauna known from or predicted to occur within the Study Area is provided in Table 18.

A likelihood of occurrence assessment was conducted for each of these species (Table 18).

6.2 Field survey

6.2.1 Fauna species

During the survey 42 fauna species were recorded within the Study Area (all surveys combined), consisting of 35 birds (all native), four mammals (three native and one exotic), two reptiles (native) and one frog (native). All species recorded within the Study Area during the survey have previously been identified in a *NatureMap* search.

At least three of the species recorded during the survey are species of conservation significance (see Figure 6):

• Two Carnaby's Black Cockatoos (*Calyptorhynchus latirostris*) were observed flying over the site on one occasion, south along the Tonkin Highway (GHD 2012a). During the same

survey four other unidentified black cockatoos were observed flying north along the edge of the Swan River.

- A small flock of Carnaby's Black Cockatoo was recorded flying north-south over the High Wycombe area and was observed alighting in a stand of Marri in the southern portion of the site. A separate small flock of unidentified Black Cockatoo (*Calyptorhynchus* sp.) was also heard flying over north-east later in the afternoon during the same survey (GHD, 2013b)
- A female and juvenile Forest Red-tailed Black-Cockatoo (*Calyptorhynchus banksii subsp. naso*) were observed foraging within the vegetation of Poison Gully Creek (High Wycombe area) during the most recent surveys (September 2013). Suitable foraging, night roosting and potential breeding hollows were also recorded within the habitat along Poison Gully Creek
- Recent and historic foraging evidence (e.g. chewed marri nuts) was recorded in all wood land habitats within the Study Area. Black Cockatoo species are known to feed on a wide variety of flora species including *Allocasuarina*, *Eucalyptus* and *Banksia* and other proteaceous species, all of which were identified within the Study Area (DSEWPaC, 2012b)
- Quenda (Isoodon obesulus fusciventer) Priority 4 listed. This species was recorded in
 habitat north of the Tonkin Highway and south of Stanton Road, within the Perth Airport
 land and the High Wycombe area. A Quenda was recorded foraging beneath a thicket of
 the introduced Victorian tea tree in the southern portion of the High Wycombe site, and
 Quenda diggings/scratching were recorded in multiple locations in the southern portion of
 the site.

Active reptile searches did not record the intended target species (the P3 listed Perth-lined Skink).

6.2.2 Fauna habitat

The fauna habitat types at the Study Area are closely aligned with the vegetation types (reported in Sections 5.3.1 and 5.3.2).

The majority of the remnant vegetation is generally confined to small linear, fragmented patches alongside the highway, inside the airport land and the High Wycombe area. Whilst some habitat is connected to other patches of nearby habitat (e.g. the Perth Airport land), there are no large intact patches of habitat within the Study Area.

Furthermore the intrinsic value of much of the habitat is diminished from the constant pressure of urbanisation and development (e.g. predation from cats and dogs, increased competition with introduced rodents, dumping of rubbish, weeds and removal of fallen timber for firewood and 'cleaning up'). A large portion of the central part of the High Wycombe area between Dundas Road and the rail line has been recently cleared and graded.

The key fauna habitat values of the Study Area are summarised below.

Woodland & open woodland habitats

This habitat is primarily located along the Tonkin Highway south and north of the Swan River, within the Perth Airport land and the High Wycombe area. The woodland habitat comprises up to 19.5 ha of 14 small patches of habitat (Figure 6) fragmented by roads, houses, rail lines and other development. This woodland provides habitat for species of conservation concern including Black Cockatoos' and the Quenda. The largest of these patches comprise of scattered *Corymbia calophylla* and/or *Eucalyptus rudis* over a modified understorey situated between the

Tonkin Highway and residential housing, Perth Airport land and Poison Gully Creek within the High Wycombe area.

On elevated ground above the river this habitat comprised of small linear patches with poor to moderately intact understorey of low open woodland of remnant *Eucalyptus marginata* and *Banksia* spp., or remnant *Eucalyptus marginata* and *Corymbia calophylla* woodland, or scattered *Corymbia calophylla* and/or *Eucalyptus rudis*.

Along the foot slopes leading to the river and along the river this habitat consisted of remnant *Eucalyptus rudis* open woodland with poor to moderately intact understorey. Along the river's edge remnant *Casuarina obesa* low woodland over an understorey of *Juncus* sp. and weedy grasses and herbs dominated.

Woody debris (e.g. hollow logs, fallen branches) was uncommon, with most being removed to tidy areas, or possibly for firewood. Ground debris in the form of leaf litter and smaller branches was localised and common in remnant woodland but is, however, generally uncommon from the majority of the Study Area. Larger *E. rudis* trees along the river provided small and medium hollows for native birds, bats and possum. Larger hollows suitable for large owl species and Black Cockatoos were very uncommon.

The woodland within the High Wycombe area are closely aligned with the vegetation and primarily consist of open woodland of Marri and Jarrah over a mixed understorey. Woody debris (e.g. hollow logs, fallen branches) was uncommon. Ground debris in the form of leaf litter and smaller branches was localised and common where overstorey was present, however, was generally uncommon for the majority of the area.

The majority of the northern part of the High Wycombe area between Dundas Road and the rail line was cleared and consisted of scattered trees and a small patch of open woodland.

Revegetated areas

Revegetation in the form of planted native trees and shrubs was commonly recorded along both sides of the highway, and in other parts of the Study Area. Most of the revegetation is a result of rehabilitation works from construction of the highway and adjacent road upgrades. In some areas, the dense shrubs provide important refuge for native fauna including the Quenda which was recorded in a dense patch of *Chamelaucium uncinatum* adjoining remnant woodland of *Eucalyptus marginata* and *Banksia* spp. south-west of the Perth Airport. Planted native shrubs and trees, also enhances the remaining remnant vegetation, and in some places provides local connectivity between remnants and other habitat types (e.g. the river and adjoining habitats along the highway).

Large areas of the introduced Victorian tea tree dominated some sections of the High Wycombe area between Dundas Road and the rail line. While considered an invasive native, this species provides habitat for native fauna including the DPaW Priority 4 species, Quenda (*Isoodon obesulus* subsp. *fusciventer*), which was recorded foraging beneath a thicket of the tea tree. Quenda diggings/scratching were recorded in multiple locations.

Ephemeral and artificial water bodies

Two small (0.5 hectares) low lying areas were recorded north of the Swan River adjacent the bridge within the Study Area (Figure 6). These lower lying areas would be ephemeral wetlands during times of higher rainfall, and would act as important refuge for breeding for frogs when inundated. One of these areas is constructed (artificial), probably for storm water harvesting. However, it now contains areas of *Typha* sp. and other native rushes and sedges, with planted Melaleuca around the fringes of the wetland.

Two ephemeral drainage lines (stormwater channels) were recorded north of Bassendean Road, and between the highway and River Road (Figure 6). Each is approximately 1 m wide, and up to 1.5 m deep. The vegetation along each appears to be regularly maintained (e.g. slashed and mowed). Whilst not providing any significant habitat features, the drainage lines may provide ephemeral habitat for native frogs, and facilitate the movement of frog species through the site during times of flow.

A small drain runs along the western boundary of the High Wycombe area between Dundas Road and the rail line. The drainage line is mostly hidden below the High Wycombe Study Area boundary (Figure 6). In the northern section the drain is fed by Poison Gully Creek via a culvert under Dundas Road. Whilst not providing any significant habitat features, the drain may provide ephemeral habitat for native frogs including the Sign-bearing froglet (*Crinia insignifera*), which was recorded within the Study Area, and facilitate the movement of frog species through the Study Area during times of flow.

Swan River

The river provides a diverse array of aquatic habitat values. However, the vegetation and associated habitat, particularly below the existing bridge along the River-edge is modified and limited.

Poison Gully Creek

The area surrounding the creek is a Bush Forever site. A female and juvenile Forest Red-tailed Black-Cockatoo were observed foraging within the vegetation of Poison Gully Creek during the most recent surveys. Suitable foraging, night roosting and potential breeding hollows were also recorded for Black Cockatoo within the habitat along Poison Gully Creek. In addition the creek has aquatic habitat values, and the riparian vegetation forms part of a local corridor for the movement of fauna.

6.2.3 Black Cockatoo habitat

The habitat assessment identified a total of up to 19.5 ha of habitat, with 125 trees of suitable DBH to be considered as potential breeding trees across the Study Area (Figure 6). The dominant species were:

- Corymbia calophylla (Marri) (60 trees including one potential nesting hollow)
- Eucalyptus marginata (Jarrah) (31 trees including one potential nesting hollow)
- Eucalyptus rudis (Flooded Gum) (20 trees including one potential nesting hollow)
- Eucalyptus gomphocephala (eight trees)
- Dead trees and other Eucalypts (six trees).

Trees of this size are considered to have nesting potential now, or will develop hollows within 100 years (DSEWPaC, 2012b). Of the 125 trees of suitable DBH, three (Figure 6) were identified with potentially suitable hollows for Black Cockatoo nesting. The survey did not record any direct observations of Black Cockatoos occupying hollows.

Figure 6 displays the location of potential breeding trees and trees with potential nesting hollows recorded during the field survey for Black Cockatoo within the Study Area.

The woodlands and open woodlands habitats discussed in Section 6.2.2 provide small areas of Black Cockatoo feeding habitat within the Study Area. Several of the flora species that are known to be feeding resources for cockatoo species were recorded during the field survey (particularly *Eucalyptus rudis* and *Allocasuarina fraseriana*), along the Swan River. Two small patches of scattered *Corymbia calophylla* were also recorded on the southern and northern side

of the Tonkin Highway, north of Dunstone Road. Foraging habitat was recorded within the Perth Airport land. Foraging, potential night roosting and breeding habitat was recorded within the High Wycombe area.

Habitat connectivity

The Study Area is surrounded by a highly modified landscape within established urban and industrial land, hence any remaining remnant vegetation should be considered as important habitat for native fauna species. The majority of the habitat is located along the Tonkin Highway, which is intersected by numerous service roads and a major rail line. Much of the Study Area has previously been cleared and the functionality of the remaining remnant vegetation has been reduced. Subsequently the corridor values (habitat linkages) alongside roads are diminished. While providing some connectivity in the local area, these areas are unlikely to provide important habitat connectivity for the broader area/region.

The Swan River and associated riparian vegetation, although somewhat fragmented, provides an important corridor connecting habitats of the Study Area via the road and adjoining vegetated areas (e.g. the parklands and reserves located along the Swan River foreshore).

The vegetation in the High Wycombe area provides for limited fauna movements between Poison Gully Creek and a larger patch of vegetation along Crumpet Creek located on the eastern side of Dundas Road. The habitat serves as a 'stepping stone' between other habitats in the locality for species which are capable of traversing fragmented landscapes (e.g. birds such as the Black Cockatoo). While providing some connectivity in the locality, the Study Area is unlikely to provide important habitat connectivity within the region.

6.2.4 Likelihood of occurrence

An assessment on the likelihood of conservation significant fauna species occurring in the Study Area was conducted (Appendix E). This assessment was based on species biology, habitat requirements, the quality and availability of suitable habitat and records of the species in the area. The assessment concluded that two species are known from the Study Area (Carnaby's Black Cockatoo, Forest Red tailed Black Cockatoo and Quenda) and six species were likely to occur within the Study Area (Table 18).

Table 18 Summary of fauna species likely occur in the Study Area (based on likelihood of occurrence assessment)

Scientific name	Common	Status		Likelihood of occurrence
	name	State	Federal	
Reptiles				
Lerista lineata	Perth-lined Skink	P3	-	Likely. This species was not recorded within the Study Area. However, given the cryptic nature of this species it is still considered likely that it could occur within the woodland habitats of the Study Area south of the river.
Birds				
Calyptorhynchus latirostris	Carnaby's Cockatoo (short-billed black- cockatoo)	Т	V	Recorded. Flying along the Tonkin Highway and within the High Wycombe area.

Scientific name	Common	Status		Likelihood of occurrence	
	name	State	Federal		
Calyptorhynchus banksii subsp. naso	Forest Red- tailed Black- Cockatoo	T	E	Recorded. Poison Gully Creek High Wycombe area.	
Merops ornatus	Rainbow Bee-eater	IA	MT	Likely. Along the Swan River.	
Falco peregrinus	Peregrine Falcon	S	-	Likely.	
Mammals					
Hydromys chrysogaster	Water-rat	P4	-	Likely – within the Swan River and Poison Gully Creek.	
Isoodon obesulus subsp. fusciventer	Quenda	P4	-	Recorded. Adjacent the Tonkin Highway in revegetation and in Victorian tea tree in the High Wycombe area.	
Invertebrates					
Synemon gratiosa	Graceful Sun Moth	P4		Likely. In woodland habitats adjoining the Tonkin Highway. Unlikely for habitat within Perth Airport as targeted surveys have not recorded the species (PAPL 2013).	

A detailed likelihood of occurrence assessment is provided in Appendix E.

Conservation codes are provided in Appendix C.

IA International Agreement
MT Migratory terrestrial species

P3 Priority 3
P4 Priority 4

S Other specially protected fauna

T Threatened V Vulnerable

7. Potential constraints

This assessment investigated the ecological and broader environmental aspects of the Study Area as defined in Section 1.3. It is difficult to determine at this stage of the Project the level of potential impact to the broader environmental and ecological values of the Study Area (e.g. how many hectares of Black Cockatoo foraging habitat would be cleared) given that the alignment selection process is to be reviewed and only one option selected. It is unlikely that the entirety of any of the broader environmental and ecological values identified in this report would be modified or removed by the proposed Project. A definitive number (e.g. area of clearance) cannot be provided until the alignment review process is completed.

There are a number of potential environmental and ecological constraints within the Study Area. Given that the Project is still in the planning phase the PTA has the opportunity to review and refine the alignment to avoid and/or minimise adverse environmental impacts.

7.1 Flora & vegetation

The main constraints of the project relating to flora and vegetation are:

- All vegetation associations and complexes mapped as occurring within the Study Area have less than 30 percent of their pre-European/pre-1750 extents remaining. However, the Study Area may be considered to be within a constrained area of the Swan Coastal Plain (EPA, 2006a). In this case, Beard (1979) vegetation association 1018 and all the Heddle et al. (1980) vegetation complexes are present at greater than 10 percent of their pre-European/pre-1750 extents remaining and would not, therefore, be considered critical assets. Vegetation associations 1001 (in the Cities of Bayswater and Belmont and the Shire of Kalamunda) and 1009 (in the City of Bayswater) are present at less than 10 percent of their pre-European extent remaining, and may, therefore, be considered critical assets.
- Three of the vegetation types identified within the Study Area during the 2013 GHD surveys had affinities with five TECs that have previously been recorded within 5 km of the Study Area. In addition, Mattiske Consulting Pty Ltd (2008) suggested similarities between identified vegetation types within the Perth Airport portion of the Study Area and four TECs. The Morgan (2013) survey of part of the Study Area suggested similarities between identified vegetation units and four TECs.
- A total of 27 individuals of the wavy-leaved smokebush (Conospermum undulatum) (listed as Threatened under the WC Act and Vulnerable under the EPBC Act) was recorded within the High Wycombe area during the GHD Level 2 survey. Two Priority 4 flora species (Calothamnus rupestris and Eucalytpus caesia) were also recorded during the GHD field surveys, although these species have been planted as ornamentals and within rehabilitation across the south-west of Western Australia and have become naturalised outside of their range. These species are commonly planted in urban environments and their presence within the Study Area is not considered to be a natural occurrence.
- There is the potential for an additional five Federally listed flora species (all State Threatened and Federally Endangered) to occur within the Study Area. However, these species were not recorded during the field surveys:
 - Andersonia gracilis
 - Caladenia huegelii
 - Grevillea curviloba subsp. incurva
 - Macarthuria keigheryi

- Verticordia fimbrilepis subsp. fimbrilepis

7.2 Fauna

The main faunal constraints of the Project include:

- Up to 19.5 ha of foraging habitat, and potential night roosting and breeding habitat
 (although this is restricted to the Poison Gully Creek habitat) and 125 potential breeding
 habitat trees, for the threatened Black Cockatoo species.
- Up to 19.5 ha of woodland and additional planted shrub habitat (e.g. Victorian tea tree) for the Quenda
- The native vegetation and associated habitat, likely to be used by fauna of conservation significance including the Perth-lined Skink (woodland habitat) and the Water Rat (riparian woodland habitat along the Swan River and Poison Gully Creek).
- The vegetation which is used by fauna species for habitat and local linkages between areas of habitat. Clearing or modification of this habitat, will only further reduce the overall area of habitat available to fauna species within the Study Area and locality.

Impacts to the habitat for fauna including conservation significant fauna (e.g. removal of habitat from clearing) are likely to be unavoidable for this Project. However, there is likely to be opportunity for the Project to reduce the extent of these direct impacts during an alignment review and refinement process.

7.3 Other

The Study Area crosses one Bush Forever Site (386) and intersects the corner of another (45 – Poison Gully Creek). The Project should consider avoidance and minimisation to these values during an alignment review and refinement process. Furthermore, 10 geomorphic wetlands (including three conservation category wetlands) and two wetlands of national significance occur within the Study Area. The conservation significant wetlands are located in association with the Swan River and the Perth Airport woodland swamps (see Section 4.5). The Project requires consideration of these areas in order to avoid or minimise impacts on these wetlands. Indirect impacts, such as impacting on surface water flows or groundwater must also be considered.

8. Approvals

The purpose of this section is to discuss the significance of the identified constraints (Section 7) with regard to the requirements under Federal and State environmental legislation. This discussion is limited to the Study Area outside of the airport land.

8.1 Federal — Environment Protection and Biodiversity Conservation Act 1999

The Federal EPBC Act promotes the conservation of biodiversity by providing protection for threatened species, threatened ecological communities, migratory and marine species and other protected matters. There are nine Matters of National Environmental Significance (MNES) identified in the EPBC Act of which two may occur in, or relate to, the Study Area (nationally threatened species and ecological communities, and migratory species) (Table 19).

Table 19 Matters of National Environmental Significance which may occur, or relate to, the Study Area

Matter of National Environmental Significance (MNES)	MNES present within 5 km of the Study Area
World heritage properties	None
National heritage places	None
Wetlands of international importance	None
Great Barrier Reef Marine Park	None
Nuclear action	None
Commonwealth marine areas	None
A water resource in relation to coal seam gas development and large coal mining development	None)
Nationally threatened species and ecological communities	34 (see Section 5.5.2 and 6.1.2) and 3 (see Section 0), respectively. See also Section 8.1.1.
Migratory species	12 (see Section 8.1.2).

(DotE, 2013)

8.1.1 Nationally threatened species & ecological communities

Threatened Ecological Communities

There is the potential for two Federally listed TECs (both Endangered) to occur within the Study Area:

- Eucalyptus calophylla [now Corymbia calophylla] Kingia australis woodlands on heavy soils, Swan Coastal Plain (SCP3a)
- Eucalyptus calophylla [now Corymbia calophylla] Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (SCP3c)

Consultation with DPaW will be required to determine if these areas are considered to be TECs. If DPaW advises that they are considered to be TECs, the Project will likely require referral under the EPBC Act.

Flora

A total of 27 individuals of the wavy-leaved smokebush (*Conospermum undulatum*) (listed as Threatened under the WC Act and Vulnerable under the EPBC Act) were recorded within the High Wycombe area during the Level 2 survey. These were observed within the "Sparse Woodland of *Corymbia calophylla* over *Xanthorrhoea preissii* and low shrubs, sedges and herbs" and within the Poison Gully Bush Forever Site (see Section 4.4) (vegetation type "Remnant *Eucalyptus marginata/E. rudis/Corymbia calophylla* Woodland over a mid-storey and understorey of mixed native species"). Disturbance to any of these species would likely require referral under the EPBC Act.

There is the potential for an additional five Federally Endangered (and Threatened under the WC Act) flora species to occur within the Study Area. However, these species were not recorded during the field surveys:

- Andersonia gracilis
- Caladenia huegelii
- Grevillea curviloba subsp. incurva
- Macarthuria keigheryi
- Verticordia fimbrilepis subsp. fimbrilepis

Fauna

At least two fauna species (Carnaby's Black Cockatoo and Forest Red-tailed Black-Cockatoo) were recorded within the Study Area during the surveys.

The Graceful Sun Moth is no longer listed under the EPBC Act, therefore requires no further consideration under the Act. The species was also delisted from the WC Act and is now listed as Priority 4 by DPaW.

No additional terrestrial EPBC listed fauna species were identified as having known or potentially suitable habitat within the Study Area.

Black Cockatoo

In order to review the potential constraints to the Black Cockatoo species within the Study Area, the DotE (DSEWPaC, 2012b) EPBC Act referral guidelines for three threatened Black Cockatoo species were consulted. Within these guidelines, DotE provides a risk table that gives guidance on what it views as risks/impacts to Black Cockatoos that will trigger referral. Risk is broken into three categories: high, uncertain and low and primarily focuses on breeding, feeding and roosting areas as well as indirect impacts. If there is uncertainty with regard to risks on Black Cockatoos then the DotE recommends referring the Project or contacting the DotE to ensure legal certainty.

It is difficult to determine at this stage of the Project how much foraging and potential breeding habitat may be impacted. It is very unlikely that the entire 19.5 ha and all 125 trees would be modified or removed. However, a definitive number cannot be provided until the alignment review process is completed.

In its current state, the proposed Project is considered to be at risk of significant impact to the one or more of the three species of Black Cockatoo and is likely to trigger the need for referral

because it is likely that more than 1 ha of quality foraging habitat would be removed by the proposed Project.

However this Project is still in the preliminary stages and the full extent of clearing is unknown. Once further information (e.g. preferred alignment, extent of clearing and construction methods) regarding the Project is known, the need to refer and the significance of impacts to these species should be re-visited.

8.1.2 Migratory species

One terrestrial migratory listed species (Rainbow Bee-eater) was considered likely to occur within the Study Area. However, no important habitat for any of the EPBC Act migratory (terrestrial, wetland or marine) species mentioned in this report would be substantially removed or modified as part of the proposed works. The proposed works are unlikely to disrupt the lifecycle of an ecologically significant proportion of a population of listed migratory species. The Project is unlikely to result in an invasive species that is harmful to a listed migratory species becoming established in an area of important habitat for listed migratory species. It is unlikely that listed migratory species would be significantly impacted by the proposed works.

8.2 State legislation

8.2.1 Part IV of Environmental Protection Act 1986

Significant proposals, such as development activities, must be referred to the Environmental Protection Authority (EPA) under Section 38 of the EP Act. The EPA evaluates a proposal to determine the extent of the impact, and is dependent upon the following factors:

- The extent and consequence of impacts on biophysical aspects
- The environmental values of the areas affected
- The extent of emissions and their potential to unreasonably interfere with the health, welfare, convenience, comfort or amenity of people
- The extent and rigour to which potential impacts have been investigated and described in the referral, and the confidence in the reliability of predicted impacts
- The extent to which the proposal implements the principles of sustainability
- The ability of decision-making authorities to place conditions on the proposals to ensure required environmental outcomes are achieved
- The likely level of public interest and the extent to which the proponent has consulted with interested and affect people and responded to constraints raised

Due to the size of the Project and environmental constraints identified it is considered the Project should be discussed with the EPA to determine whether referral under Section 38 of the EP Act is required.

8.2.2 Clearing Permit under Part V of the *Environmental Protection Act* 1986

Any clearing of native vegetation requires a clearing permit under Part V of the EP Act, except when a project is assessed under Schedule 6 of the Act or is prescribed by regulation in the *Environmental Protection (Clearing Native Vegetation) Regulations 2004.* Commonwealth land is not subject to this permit requirement.

Table 20 provides an indicative assessment of the proposed clearing of the entire Study Area against the "Ten Clearing Principles", as outlined in the EP Act, to determine whether it is at variance to the Principles. These Principles aim to ensure that all potential impacts resulting from removal of native vegetation can be assessed in an integrated way. The assessment against the Ten Clearing Principles determined that based on the current Study Area the proposed Project is likely to be at variance with Principles a, c, d, e and f and may be at variance with Principles b, g, h and i.

This Project is still in the preliminary stages and the extent of clearing is unknown. To provide an idea of potential constraints associated with this project the assessment against the clearing principles assumed that clearing of the entire Study Area will be required. Once further information regarding the project is known, including the clearing requirements, the assessment against the clearing principles can be refined.

8.2.3 Wildlife Conservation Act 1950

The WC Act provides for the conservation and protection of wildlife. It is administered by the Department of Environmental Regulation (DER) (formerly DEC) and applies to both flora and fauna. Any person wanting to capture, collect, disturb or study flora or fauna requires a permit to do so.

A permit is required under the WC Act if removal of flora and fauna species and ecological communities protected under the Act is required.

Table 20 Assessment against the Ten Clearing Principles

Principle	Assessment of principle of the portion of the Study Area outside the Perth Airport boundary	Outcome
(a) Native vegetation should not be cleared if it comprises a high level of biological diversity.	A total of 1056 native flora species and 264 native fauna species have been recorded within 5 km of the Study Area. The field surveys identified 145 native flora species and 41 native fauna species. As the majority of the Study Area has been highly modified and degraded, the diversity of native flora is lower than may be expected.	Likely to be at variance.
	Broadscale vegetation mapping of the area undertaken by Beard (1979) identified the following vegetation associations within the Study Area:	
	 Medium very sparse woodland; jarrah, with low woodland; Banksia & Casuarina (association 1001). 	
	Medium woodland; marri & river gum (association 1009).	
	 Mosaic: Medium forest; jarrah–marri/Low woodland; banksia/Low forest; teatree/Low woodland; Casuarina obesa (association 1018). 	
	Heddle et al. (1980) mapped the following vegetation complexes within the Study Area:	
	Swan Complex (complex 33).	
	 Southern River Complex (complex 42). 	
	 Bassendean Complex — central and south (complex 44). 	
	The Beard (1979) and Heddle et al. (1980) vegetation associations and complexes have less than 30 percent of their pre-European/pre-1750 extents remaining. However, the Study Area may be considered to be within a constrained area of the Swan Coastal Plain. In this case, Beard (1979) vegetation association 1018 and all of the Heddle et al. (1980) vegetation complexes are present at greater than 10 percent of their pre-European/pre-1750 extents remaining and would not, therefore, be considered critical assets. However, vegetation associations 1001 (in the Cities of Bayswater and Belmont and the Shire of Kalamunda) and 1009 (in the City of Bayswater) are present at less than 10 percent of their pre-European extent remaining, and may, therefore, be considered critical assets at this level.	
	The Study Area exists within remnant vegetation and completely altered areas, roads and open water. Within the Study Area the following extents of each vegetation type were mapped:	
	 Low Open Woodland of remnant Eucalyptus marginata and Banksia spp. over a native mid-storey of mixed native species and an understorey of either mixed native species or weedy grasses and herbs (2.7 ha). 	
	• Remnant <i>Casuarina obesa</i> Low Woodland over an understorey of <i>Juncus</i> sp. and weedy grasses and herbs (0.74 ha).	
	 Remnant Melaleuca cuticularis Open Shrubland over an understorey of weedy grasses and herbs (0.37 ha). 	
	 Remnant Eucalyptus rudis Open Woodland over completely altered understorey in drainage lines (2.6 ha). 	
	 Remnant Eucalyptus marginata/E. rudis/Corymbia calophylla Woodland over a mid- storey and understorey of mixed native species (3.1 ha). 	
	 Sparse Woodland of Corymbia calophylla and/or Eucalyptus rudis over a weedy understorey (2.2 ha). 	
	 Corymbia calophylla, Melaleuca preissiana and Banksia spp. over Xanthorrhoea preissii, Hypocalymma angustifolium and Dasypogon bromeliifolius, Pericalymma ellipticum var. ellipticum and Astartea scoparia (2.6 ha). 	
	 Scattered Corymbia calophylla and/or Eucalyptus rudis/Corymbia calophylla Woodland over a mid-storey and understorey of mixed native species (12 ha). 	

Principle	Assessment of principle of the portion of the Study Area outside the Perth Airport boundary	Outcome
	 Plantings of non-native species over an understorey of weedy grasses and herbs (2.9 ha). 	
	 Areas rehabilitated with native and non-native species following road-works (29 ha). 	
	The desktop assessments determined that three individuals of the wavy-leaved smokebush, <i>Conospermum undulatum</i> (listed as Threatened under the WC Act and Vulnerable under the EPBC Act), have previously been recorded within the Study Area boundary. Approximately 27 individuals of this species were identified within the High Wycombe area during the Level 2 survey. In addition, scattered occurrences of <i>Calothamnus rupestris</i> (Priority 4) was tentatively recorded within the "Low Open Woodland of remnant <i>Eucalyptus marginata</i> and <i>Banksia</i> spp. over a native mid-storey of mixed native species and an understorey of either mixed native species or weedy grasses and herbs". This species is generally found on granite outcrops, rocks and hillsides east of Perth. Another Priority 4 species, <i>Eucalytpus caesia</i> , was identified in roadside plantings along Dundas Road. This species is found on loam and granite outcrops in the Wheatbelt region of Western Australia. As these species are commonly planted as ornamental species or in rehabilitation, their presence within the Study Area is not considered to be a natural occurrence.	
	A likelihood of occurrence assessment (based on the range, habitat requirements and previous records of the species) identified 27 flora species of conservation significance likely to occur or potentially occurring within the Study Area. However with the exception of <i>Conospermum undulatum</i> , these species were not recorded during the field surveys.	
	The buffers of four occurrences of TECs are present within the Study Area. Based on the desktop assessment and GHD survey, three GHD vegetation types showed affinities with the following six TECs that have previously been recorded within 5 km of the Study Area:	
	 Eucalyptus calophylla [now Corymbia calophylla] – Kingia australis woodlands on heavy soils, Swan Coastal Plain (SCP3a) (Critically Endangered) (identified in Mattiske Consulting Pty Ltd, 2008; Morgan, 2013; and the 20136 GHD survey) 	
	 Eucalyptus calophylla [now Corymbia calophylla] – Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (SCP3c) (Critically Endangered) (identified in Mattiske Consulting Pty Ltd, 2008; and the 2013 GHD survey) 	
	 Banksia attenuata and/or Eucalyptus marginata woodlands of the eastern side of the Swan Coastal Plain (SCP20b) (Critically Endangered) (identified in Mattiske Consulting Pty Ltd, 2008; and the 2013 GHD survey) 	
	 Banksia attenuata woodland over species rich dense shrublands (SCP20a) (Critically Endangered) (identified in Mattiske Consulting Pty Ltd, 2008; Morgan, 2013; and the 2013 GHD survey) 	
	 Shrublands and woodlands of the eastern side of the Swan Coastal Plain (SCP20c) (Critically Endangered) (identified in Morgan, 2013; and the 2013 GHD survey) 	
	 Eucalyptus calophylla [now Corymbia calophylla] – Eucalytpus marginata woodlands on sandy clay soils of the southern Swan Coastal Plain (SCP3b) (Vulnerable) (identified in Morgan, 2013) 	
(b) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.	The GHD survey identified 41 native fauna species within the Study Area of which three species (Carnaby's Black Cockatoo, Forest Red tailed Black Cockatoo and Quenda) were fauna of conservation significance (see Section 6.2.1). Key fauna constraints identified for the Study Area include:	May be at variance given the presence and current extent of fauna habitat including habitat for fauna of conservation significance (e.g. 19.5 ha of foraging habitat for Black Cockatoo) that may be impacted by the Project.
	 Up to 19.5 ha of foraging habitat and 125 potential breeding habitat trees, for the Carnaby's Black Cockatoo 	
	Up to 19.5 ha of woodland habitat for the Quenda.	
	 Native vegetation and associated habitat, likely to be used by fauna of conservation significance including the Perth-lined Skink (woodland habitat) and the Water Rat 	

Principle	Assessment of principle of the portion of the Study Area outside the Perth Airport boundary	Outcome
	(riparian woodland and aquatic habitat along the Swan River and Poison Gully Creek).	
	It is difficult to determine at this stage of the Project how much of this habitat for the conservation significant fauna known from or likely to occur within the Study Area may be impacted by the Project given that the alignment selection process is to be reviewed. It is unlikely that the entire area of habitat identified within the Study Area for any one of these fauna species would be removed,	
(c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.	A total of 27 individuals of the Threatened species, Conospermum undulatum, were recorded during the GHD survey, within the High Wycombe area. A likelihood of occurrence assessment of conservation significant species (based on the range, habitat requirements and previous records of the species) identified the following seven Threatened species as potentially occurring within the Study Area: • Andersonia gracilis • Boronia humifusa • Caladenia huegelii • Grevillea curviloba subsp. incurva • Macarthuria keigheryi • Thelymitra stellata • Verticordia fimbrilepis subsp. fimbrilepis	Likely to be at variance.
	The majority of these species are only predicted to occur within the remnant vegetation of the Study Area (within the Perth Airport, within the High Wycombe area and within the Poison Gully Bush Forever Site). As the much of the Study Area is highly degraded, the potential for these species to occur within the majority of the Study Area is not considered to be great. These species were not recorded during the field surveys.	
(d) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a threatened ecological community.	Desktop assessment identified eight TEC within 5 km of the Study Area. The buffers of four occurrences of TECs are present within the Study Area. Based on the desktop assessment and GHD survey, three GHD vegetation types showed affinities with the following six TECs that have previously been recorded within 5 km of the Study Area: • Eucalyptus calophylla [now Corymbia calophylla] – Kingia australis woodlands on heavy soils, Swan Coastal Plain (SCP3a) (Critically Endangered) (identified in Mattiske Consulting Pty Ltd, 2008; Morgan, 2013; and the GHD survey) • Eucalyptus calophylla [now Corymbia calophylla] – Xanthorrhoea preissii woodlands and shrublands, Swan Coastal Plain (SCP3c) (Critically Endangered) (identified in Mattiske Consulting Pty Ltd, 2008; and the GHD survey) • Banksia attenuata and/or Eucalyptus marginata woodlands of the eastern side of the Swan Coastal Plain (SCP20b) (Critically Endangered) (identified in Mattiske Consulting Pty Ltd, 2008; and the GHD survey) • Banksia attenuata woodland over species rich dense shrublands (SCP20a) (Critically Endangered) (identified in Mattiske Consulting Pty Ltd, 2008; Morgan, 2013; and the GHD survey) • Shrublands and woodlands of the eastern side of the Swan Coastal Plain (SCP20c) (Critically Endangered) (identified in Morgan, 2013; and the GHD survey) • Eucalyptus calophylla [now Corymbia calophylla] – Eucalytpus marginata woodlands on sandy clay soils of the southern Swan Coastal Plain (SCP3b) (Vulnerable) (identified in Morgan, 2013)	Likely to be at variance.
(e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an	All Beard (1979) vegetation associations and Heddle et al. (1980) vegetation complexes have less than 30 percent of their pre-European/pre-1750 extents remaining. However, the Study Area may be	Likely to be at variance, if clearing occurs within the Poison Gully Bush Forever Site and the TECs.

Principle	Assessment of principle of the portion of the Study Area outside the Perth Airport boundary	Outcome
area that has been extensively cleared.	considered to be within a constrained area of the Swan Coastal Plain. In this case, Beard (1979) vegetation association 1018 and all of the Heddle et al. (1980) vegetation complexes are present at greater than 10 percent of their pre-European/pre-1750 extents remaining and would not, therefore, be considered critical assets. Vegetation associations 1001 (in the Cities of Bayswater and Belmont and the Shire of Kalamunda) and 1009 (in the City of Bayswater) are present at less than 10 percent off their pre-European extent remaining, and may, therefore, be considered critical assets at the Local Government Area level. The Swan Coastal Plain has been severely impacted upon with the vegetation of the Study Area disjunct from other bushland areas. The vegetation associated with Poison Gully Bush Forever Site is considered as being part of a regionally significant fragmented bushland/wetland linkage which is a regionally significant but not contiguous linkage of bushland/wetland areas. This area is of particular significance as it is considered to provide corridors through otherwise highly cleared lands and provide linkages of regional significance.	To minimise the potential to be at variance with this clearing principle the final alignment should be placed in areas mapped as <i>Completely Degraded</i> .
	There is a total of 1970 ha (approximately 12 percent of the whole area) of vegetation remaining within 5 km of the Study Area (Department of Agriculture and Food Western Australia native vegetation extent: Government of Western Australia, 2012). Clearing of the remnant vegetation associated within the Study Area (27 ha, 1.4 percent of the 1970 ha remaining) is not considered to significantly reduce the remaining vegetation within 5 km of the Study Area. The vegetation potentially aligning with the previously discussed TECs may represent significant	
	remnant native vegetation within the extensively cleared Swan Coastal Plain.	
(f) Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.	The Study Area intersects a number of wetlands, including wetlands of local, regional and national significance. The Study Area also includes a number of dampland areas within the Perth Airport boundary (including 2.6 ha of vegetation type "Corymbia calophylla, Melaleuca preissiana and Banksia spp. over Xanthorrhoea preissii, Hypocalymma angustifolium and Dasypogon bromeliifolius, Pericalymma ellipticum var. ellipticum and Astartea scoparia"). The Study Area also intersects 3.7 ha of riparian vegetation associated with the Swan River and 3.1 ha of vegetation associated with the Poison Gully Creek.	At variance. Possible variance can be minimised if clearing of vegetation associated with the wetlands can be avoided, by placing the alignment within the already cleared areas. Future environmental investigations should include an assessment of potential impacts to watercourses and wetlands within the Study Area.
(g) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.	Much of the Study Area is immediately adjacent to existing cleared areas. This indicates that the Study Area exists within land which is capable of withstanding the intended use and is not considered likely to increase ground water recharge, surface water runoff or nutrient export. There is, however, the potential for soil erosion, particularly in the sloped areas, such as in the vicinity of the Swan River.	May be at variance. Management measures during clearing and construction are required to prevent erosion during and following clearing. Hygiene measures should be implemented to reduce the risk of the spread of dieback and weed species. Wherever possible, construction associated with the Project should be limited to previously disturbed areas, to minimise potential variance with this clearing principle. If vegetation clearing is required it is preferable to clear adjacent to existing cleared areas to prevent edge effects and increased weed/disease invasion.
(h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.	There are no conservation reserves within the Study Area. There are limited tracts of vegetation (within Bush Forever Sites) within and adjacent to the Study Area that act as fragmented ecological linkages and buffers.	May be at variance. Wherever possible, construction associated with the Project should be limited to previously disturbed areas, to minimise potential variance with this clearing principle.
(i) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.	It is expected that the majority of vegetation clearing associated with the Study Area can be restricted to already cleared areas. This assessment did not include an assessment of watercourses or public drinking water supply catchments. Future investigations should include consideration of these constraints to allow adequate assessment of the Project against this principle. The Study Area also includes a number of dampland areas within the Perth Airport boundary (including 2.6 ha of vegetation type "Corymbia calophylla, Melaleuca preissiana and Banksia spp. over Xanthorrhoea preissii, Hypocalymma angustifolium and Dasypogon bromeliifolius, Pericalymma ellipticum var. ellipticum and Astartea scoparia"). The Study Area also intersects 3.7 ha of riparian vegetation associated with the Swan River and 3.1 ha of vegetation associated with the Poison Gully Creek. There is the potential for deterioration of these damplands and the Swan River due to sedimentation associated with construction in wet periods. As much of the Study Area is already surrounded by a highly altered landscape on the Swan Coastal Plain, it is not considered likely that clearing of 54.9 ha of vegetation (remnant and rehabilitation) will	May be at variance. Incorporation of engineering controls should be included in the design of the railway and associated infrastructure to mitigate impacts on the quality and flow of surface or underground water. A Construction Environmental Management Plan should include measures to prevent run-off of chemicals and fuel from the site and to ensure appropriate drainage controls. Appropriate management measures should mitigate potential impacts.

Principle	Assessment of principle of the portion of the Study Area outside the Perth Airport boundary	Outcome
	cause deterioration in quality of surface or underground water.	
(j) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.	The areas of vegetation surrounding the Swan River have already been extensively disturbed. It is expected that construction can be restricted to previously disturbed areas, limiting the impact upon this vegetation. Potential impacts on flooding are only likely to occur if significant areas of vegetation are removed, resulting in additional shedding of rainfall and subsequent downstream flooding. Due to the generally highly permeable soil types in the Study Area, is unlikely that the clearing would lead to additional flooding.	Unlikely to be at variance with clearing principle. Appropriate drainage design should mitigate potential impacts.

^{*} Unless otherwise indicated, the limited information provided by Mattiske Consulting Pty Ltd (2008) and Morgan (2013) has not allowed for a full assessment of the Ten Clearing Principles within the Perth Airport boundary and the High Wycombe area, respectively.

9. Recommendations & conclusions

The constraints identified in this assessment require further consideration during the planning stages of the Project, particularly during the refinement of the proposed rail alignment. A number of the constraints can be minimised with careful planning, considering the avoidance, and then minimisation approach. However, if other environmental or technical construction constraints are more restrictive, the Project may result in unavoidable impacts to flora, fauna and wetlands.

At this stage of the assessment there are three main recommendations that could be used during the design and planning phase of the Project which has the potential to avoid, then minimise potential impacts to the environmental and ecological values identified within this report including:

- Placing infrastructure required for the Project within cleared and/or disturbed areas
- Tunnelling the alignment
- Placing the alignment along the midline (median strip) of the Tonkin Highway.

9.1.1 Alignment selection process

GHD understands that one of the alignment options is to tunnel for the majority of its length. Tunnelling would avoid the majority of the terrestrial environmental values identified in the Study Area by this report. However tunnelling may also cause other unintended adverse impacts (e.g. disruption to ground water flows) which were not assessed as part of this scope.

In the case of placing the alignment option on the surface, it is recommended that an alignment selection and refinement process be undertaken in order to reduce the potential impacts on the environment. It is recommended that the alignment be placed within the currently disturbed areas (e.g. the midline of the highway), and areas of lesser ecological value such as cleared areas and areas of planted vegetation, wherever possible in order to minimise the extent of clearing of the remaining native vegetation and habitat.

Depending on the outcomes of the alignment selection and refinement process, further environmental investigations may be required at later stages of the Project, including an environmental impact assessment. This should include an assessment of the significance of impacts to flora and fauna, and wetlands and also consider other environmental constraints not covered in this ecological assessment, including contaminated sites, land use, groundwater, noise, and heritage constraints.

9.1.2 Offsets

Flora and fauna impacts should be avoided wherever possible. If this is not possible, attempts should be made to minimise the impacts. If there are any remaining significant impacts on environmental values and the Project continues to be at variance with any of the Ten Clearing Principles, offsets may be required to compensate for those impacts and to achieve a net environmental benefit. Both the State and Federal Governments operate policies that permit offsets to be developed after all avoidance and mitigation efforts have been exhausted (EPA, 2006a). The provision of offsets (if required) would require further discussions with DotE, EPA, DER and DPaW and should reflect the offset principles.

9.1.3 General management recommendations

An Environment Management Plan (EMP) for the preferred alignment is recommended following the alignment selection and review process. The following recommendations are not site or

species specific, but rather aim to provide an outline of the minimum recommendations required for the EMP or similar document. Adherence to these measures would help to minimise the unavoidable impacts to broader environmental and ecological values within the preferred alignment. The EMP would include planning, pre-construction, construction and post-construction measures aimed at minimising the impacts to the ecological values.

Additional surveys and recommendations

- For completeness, it is recommended that a Level 1 flora and fauna survey within the
 inaccessible areas be conducted. The purpose of conducting these surveys would be to
 ground-truth the findings of the desktop assessment and appropriately determine the
 environmental values of these areas.
- Consultation with DPaW regarding the potential TECs that may occur within the Study Area.

Flora, vegetation & fauna

- All occurrences of, and any habitat suitable for, the Threatened flora species, Conospermum undulatum, should be avoided.
- Ensure that a qualified ecologist walk the proposed alignments prior to final alignment selection in order to avoid as many constraints as possible (e.g. hollow-bearing trees, flora species of conservation significance).
- Clearing should be kept to the minimum necessary for proposed activity. Demarcate all
 native vegetation and fauna habitats to be retained via erection of orange para-webbing
 fencing, so that "No Go" zones are clearly delineated and noted by construction workers,
 and any accidental loss of vegetation is avoided.
- Pre-clearance fauna surveys are recommended for the Quenda and other conservation significant fauna species (e.g. Black Cockatoo species), pending the final alignment selection process. Appropriately trained and licenced personnel (DER regulation 17 permit) would need to conduct a pre-clearance survey and would be required on site to supervise and handle any native fauna that may be residing within the habitat to be removed. The pre-clearance survey would be conducted, immediately before commencement of clearing. This would involve the development and implementation of fauna-handling and relocation protocols for the safe handling and removal of native fauna when removing fauna habitat including felling hollow-bearing trees.
- Induct all staff and contractors working within the study area regarding biodiversity constraints and required actions regarding biodiversity values
- Implement weed and pathogen management practices, including:
 - Consultation with DPaW regarding the most appropriate dieback management controls for the area
 - The induction programme shall involve hygiene training to ensure all personnel are aware of the requirements to prevent the spread of weeds and pathogens
 - All vehicles and machinery that will access the site shall be checked to ensure they are free from soil/organic matter prior to arrival on site
 - Imported construction materials shall be designated as free of weeds and pathogens (specifically dieback)
- Measures for topsoil management and regeneration using existing seed including:
 - Stockpiled topsoil should be respread evenly across the revegetation areas and any stockpiled vegetation placed to assist in soil retention and provide seed stock

- Where necessary, regeneration can be encouraged by scarification (loosening the top few centimetres) or the soil)
- Topsoil will be respread to a maximum depth of 100 mm across the areas to be revegetated
- Topsoil stockpiles should be:
 - As low as possible with a large surface area (1.5 m high or less)
 - Stabilised with vegetation or other soil stabilisers to protect from erosion (if the stockpile is expected to be required for a few months or more before reuse)
 - In a location without disturbance
 - Not on or adjacent to weed infested areas.

Drainage

- Drainage design should aim to reduce the risk of erosion and flooding.
- An appropriate stormwater management system should be developed to protect the
 existing environmental assets on the Study Area and receiving environments located
 downstream of the Study Area.
- The EMP should make provision for surface water, groundwater and drainage management actions.
- In accordance with current best practice stormwater management the development will be required to provide for stormwater retention and drainage within the lot boundary. The option adopted for the Study Area will be determined from site-specific geotechnical investigations.

Dust, noise & vibration

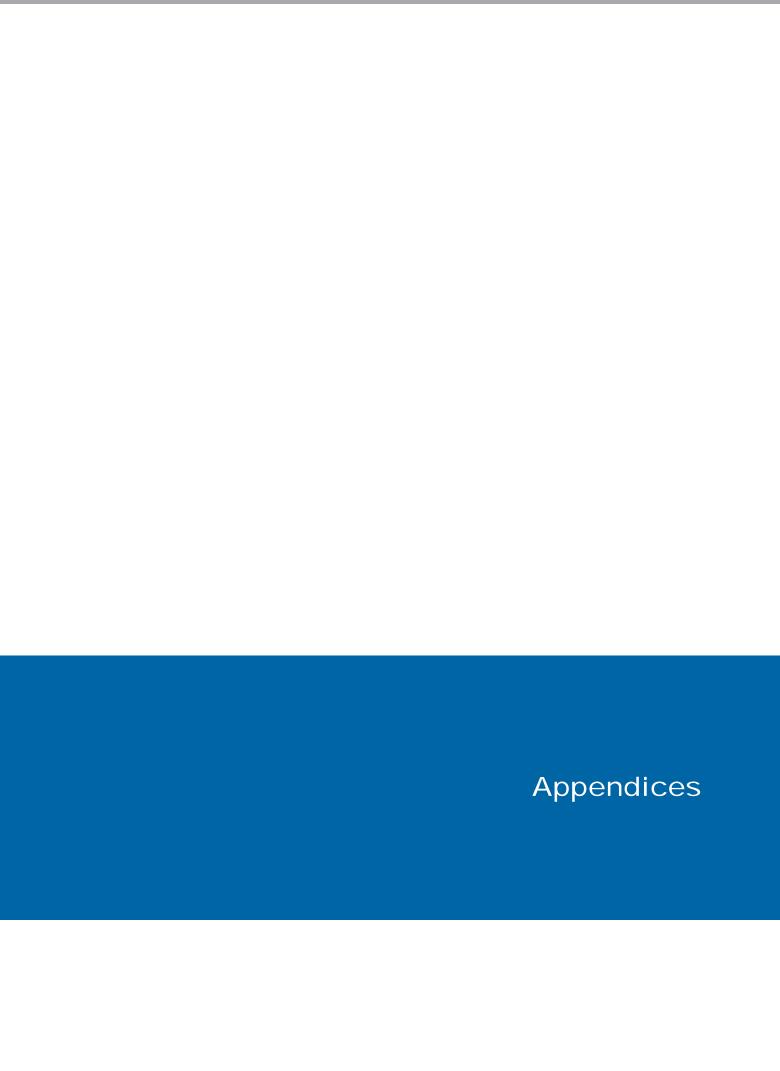
- Depending on the timing of the project, it is possible that due to hot, dry climatic conditions, dust suppression will be required during clearing and construction activities.
- PTA should consult with the local shire and relevant stakeholders regarding construction operations and any requirements for approval of a Noise Management Plan.
- Construction activities are required to comply with the Environmental Protection (Noise) Regulations 1997.

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Appendix A — Figures

Figure 1	Locality
Figure 2	Desktop review. Environmental constraints (2b - Environmental constraints: Flora & vegetation)
Figure 3	Desktop review - Surface water
Figure 4	Field survey - Vegetation type & conservation significant flora
Figure 5	Field survey - Vegetation condition
Figure 6	Fauna survey methods and results



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Option 1 Study Area

Option 3 Commercial Development

Conservation Areas

Option 2 Perth Airport Precinct Boundaries Runways and Taxiways

Terminal, Hangar and Aviation Support Development





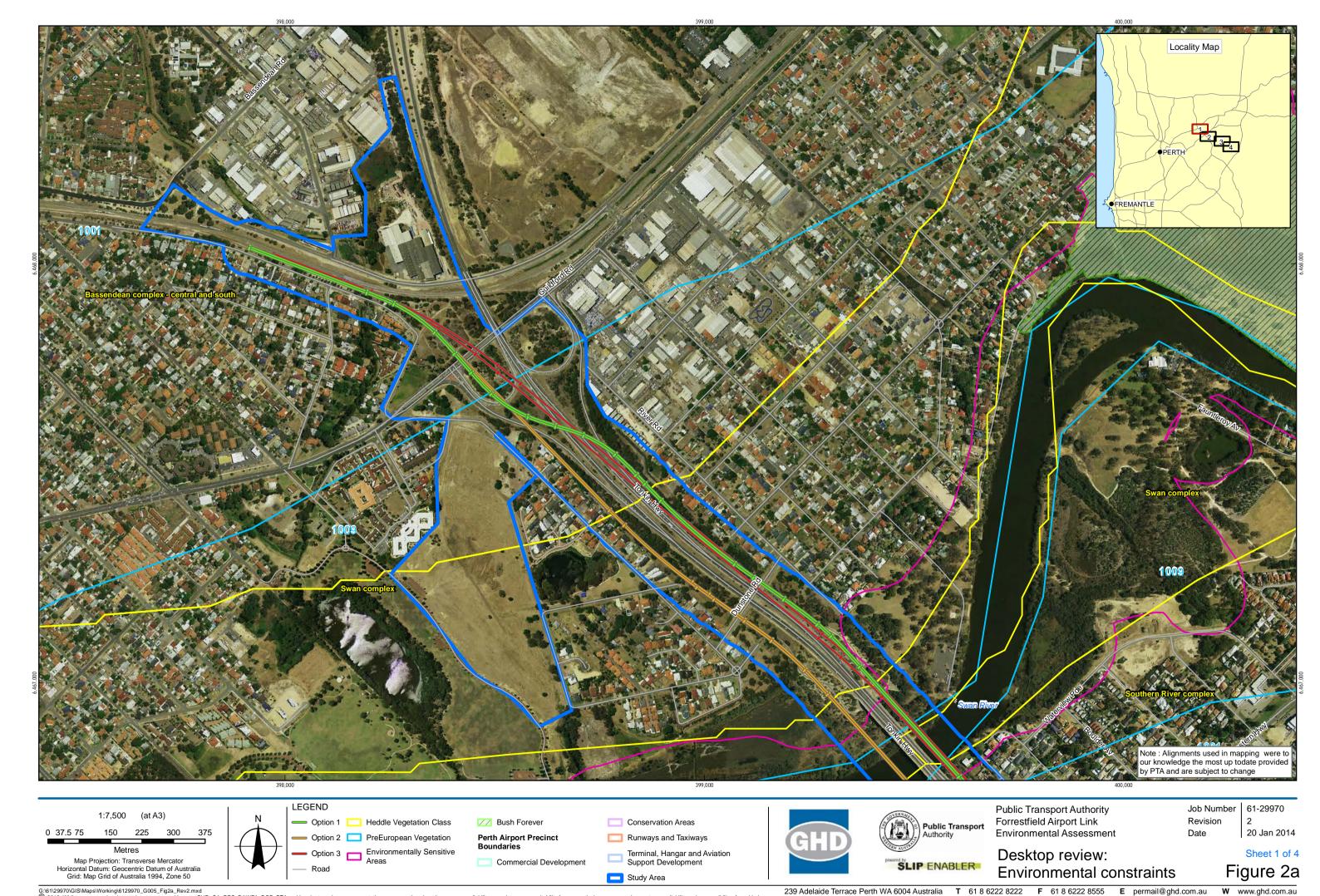
Forrestfield Airport Link Environmental Assessment Revision

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SLIP ENABLER

Locality

Figure 1



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Support Development

Study Area

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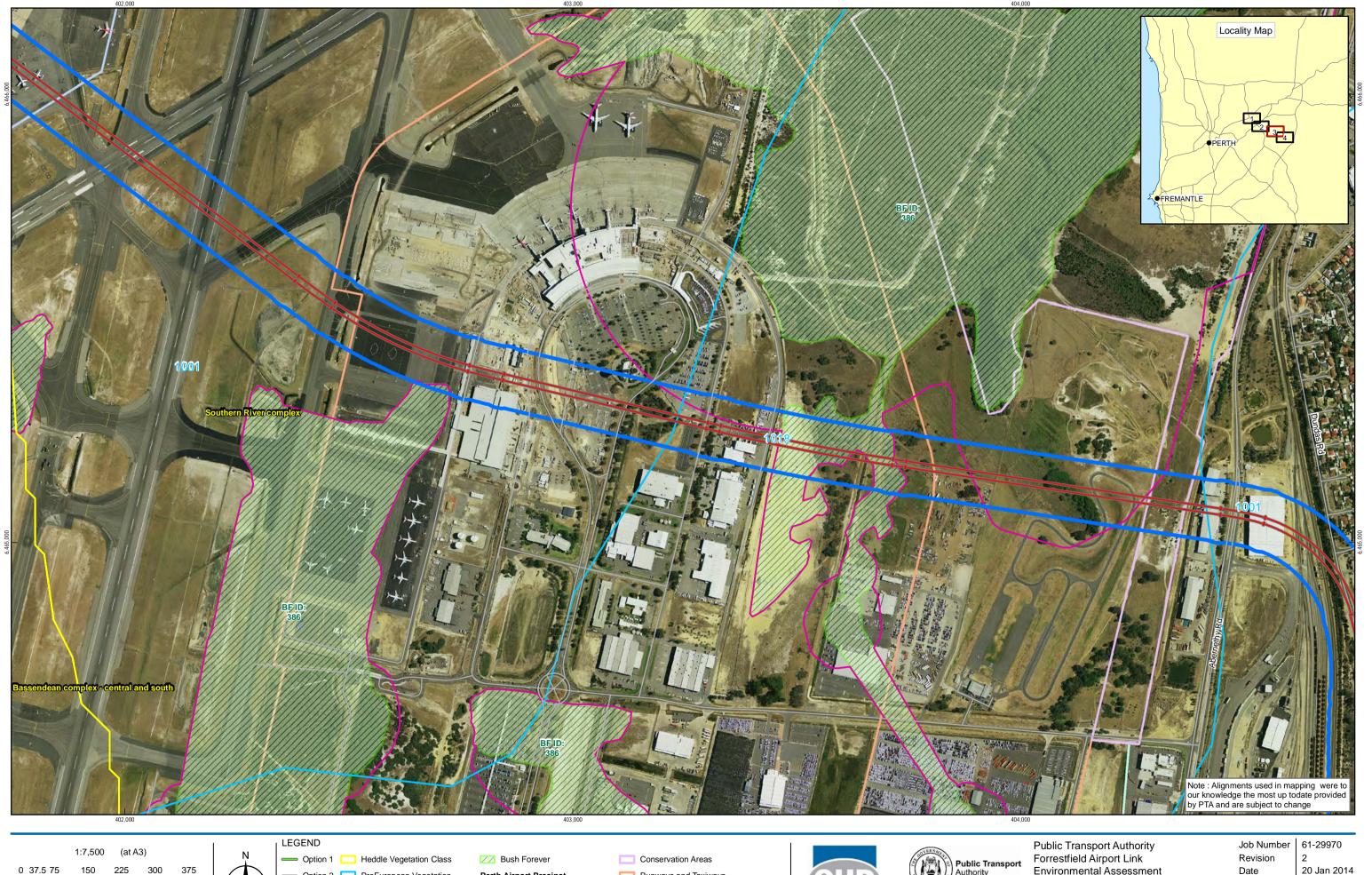
Commercial Development

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Sheet 2 of 4

Figure 2a **Environmental constraints** W www.ghd.com.au

SLIP ENABLER



Runways and Taxiways

Support Development

Terminal, Hangar and Aviation



Metres

Map Projection: Transverse Mercator

Option 2 PreEuropean Vegetation

Environmentally Sensitive



Environmental Assessment

20 Jan 2014

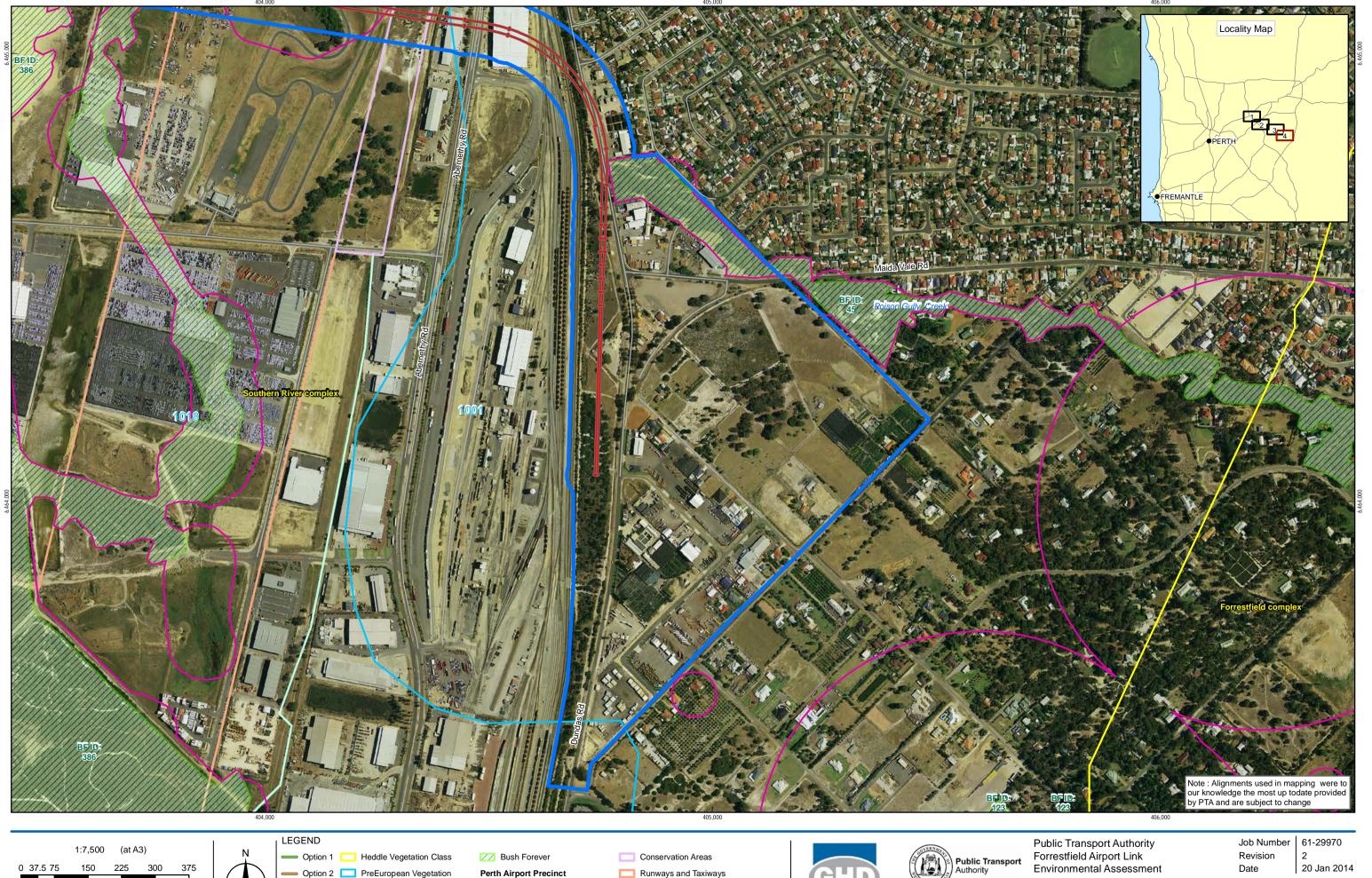
Desktop review: **Environmental constraints**

Sheet 3 of 4 Figure 2a

Perth Airport Precinct

Commercial Development

Boundaries



Terminal, Hangar and Aviation

Support Development

Study Area

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Environmentally Sensitive

Metres

Map Projection: Transverse Mercator Horizontal Datum: Geocentric Datum of Australia Grid: Map Grid of Australia 1994, Zone 50

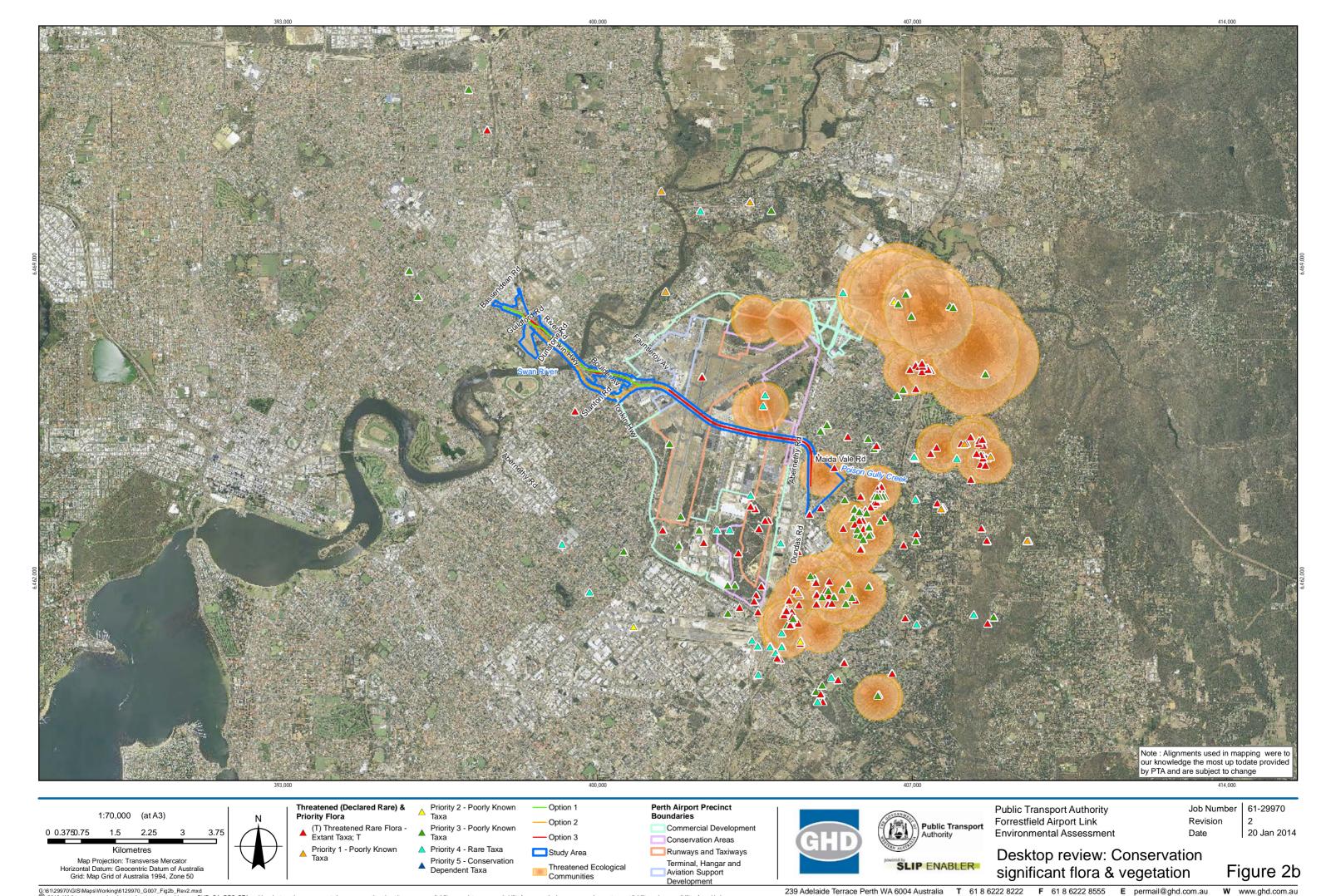
Sheet 4 of 4

Desktop review: SLIP ENABLER **Environmental constraints**

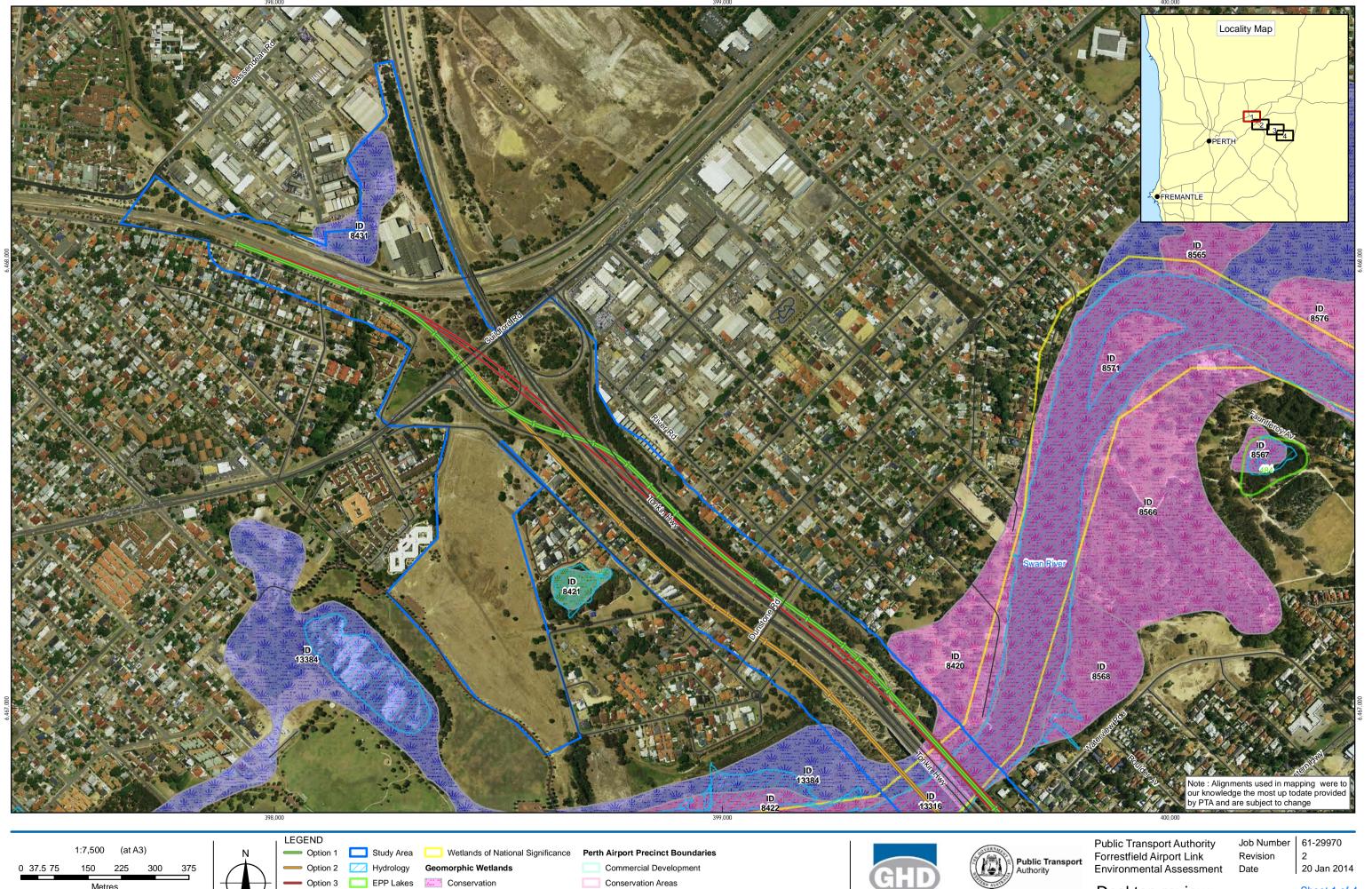
Figure 2a W www.ghd.com.au

Commercial Development

Boundaries



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Runways and Taxiways

Terminal, Hangar and Aviation Support Development

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Data source: PTA: Precinct boundary - 2013108, Options (1,2,3) - 20131009; Landgate: Metro Central 2013 Mosaic - 20121211, Roads - 20121211, Hydrology - 20130115; GHD: Study Area - 20131010; GA: 250K Australian Topographic Series - 2006; DEC: Geomorphic Wetlands - 20121128; EPA: EPP Lakes - 20121128, Wetlands of National Significance - 20081015. Created by: vdinh

Multiple Use

Resource Enhancement

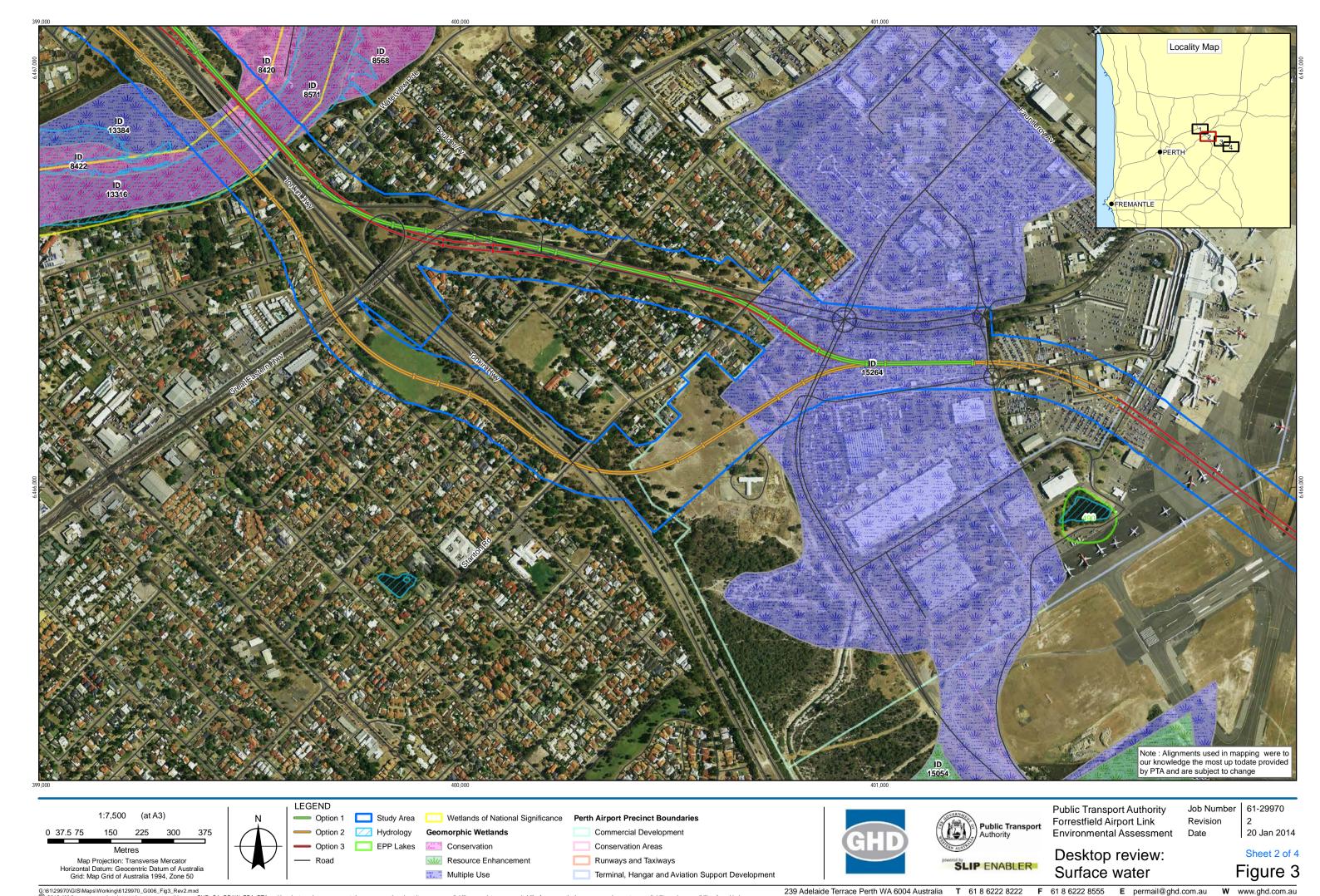
Map Projection: Transverse Mercator

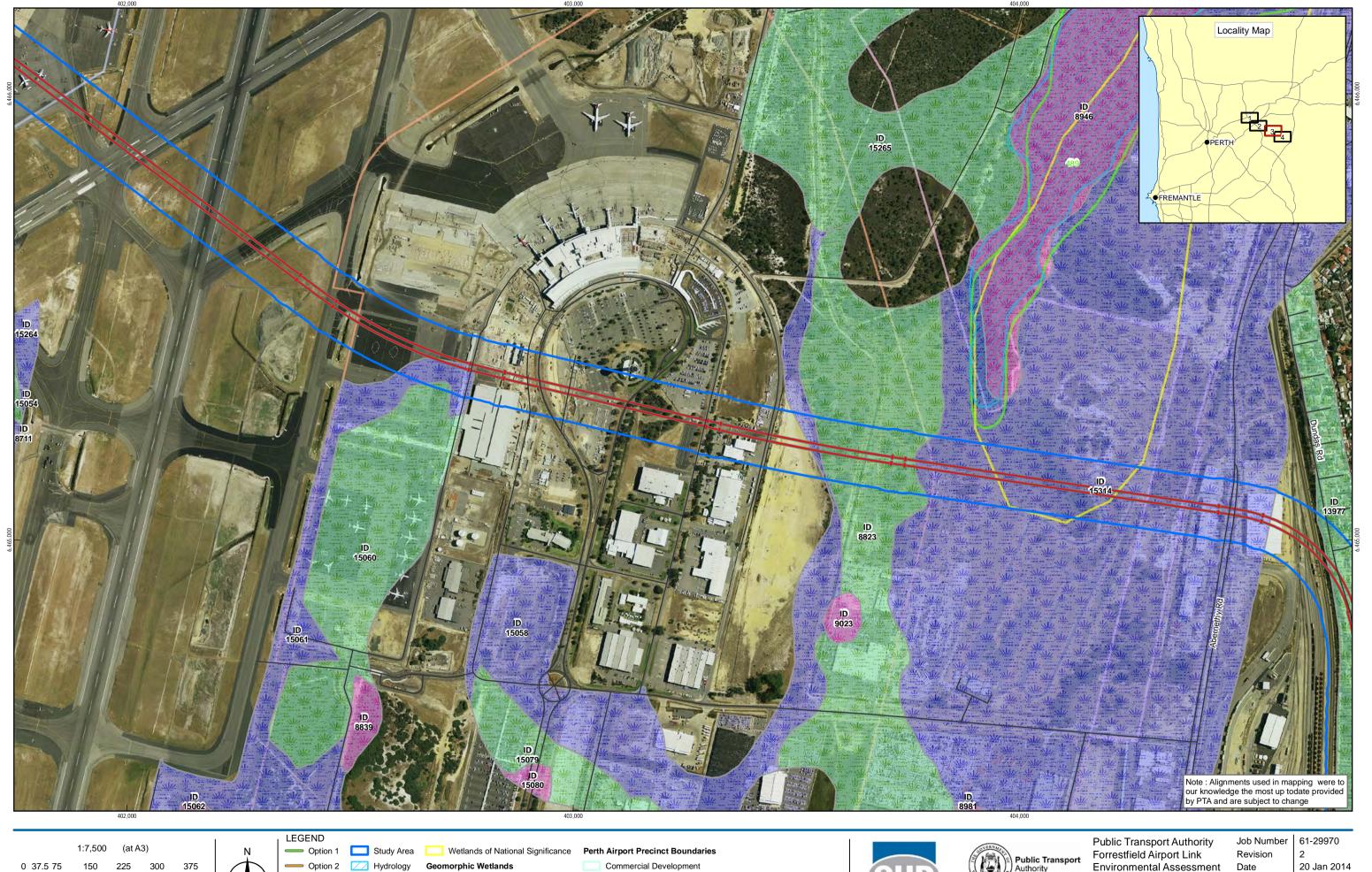
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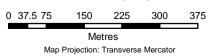
Desktop review: Surface water

Sheet 1 of 4 Figure 3

SLIP ENABLER







Horizontal Datum: Geocentric Datum of Australia Grid: Map Grid of Australia 1994, Zone 50



EPP Lakes

Resource Enhancement

Conservation Areas Runways and Taxiways Terminal, Hangar and Aviation Support Development



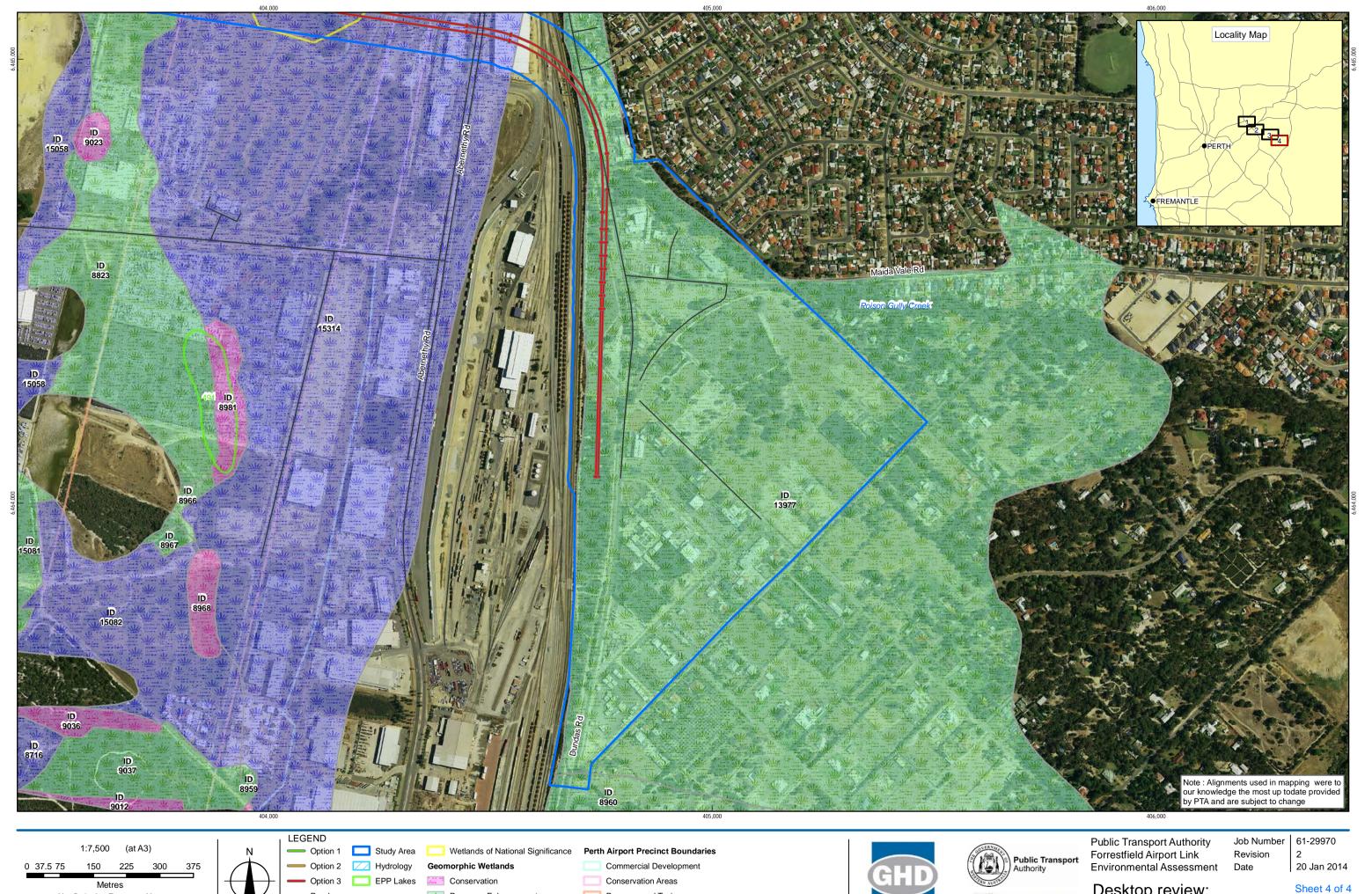


Environmental Assessment

Desktop review: Surface water

Sheet 3 of 4 Figure 3

Multiple Use



Runways and Taxiways

Terminal, Hangar and Aviation Support Development

Map Projection: Transverse Mercator

Horizontal Datum: Geocentric Datum of Australia Grid: Map Grid of Australia 1994, Zone 50

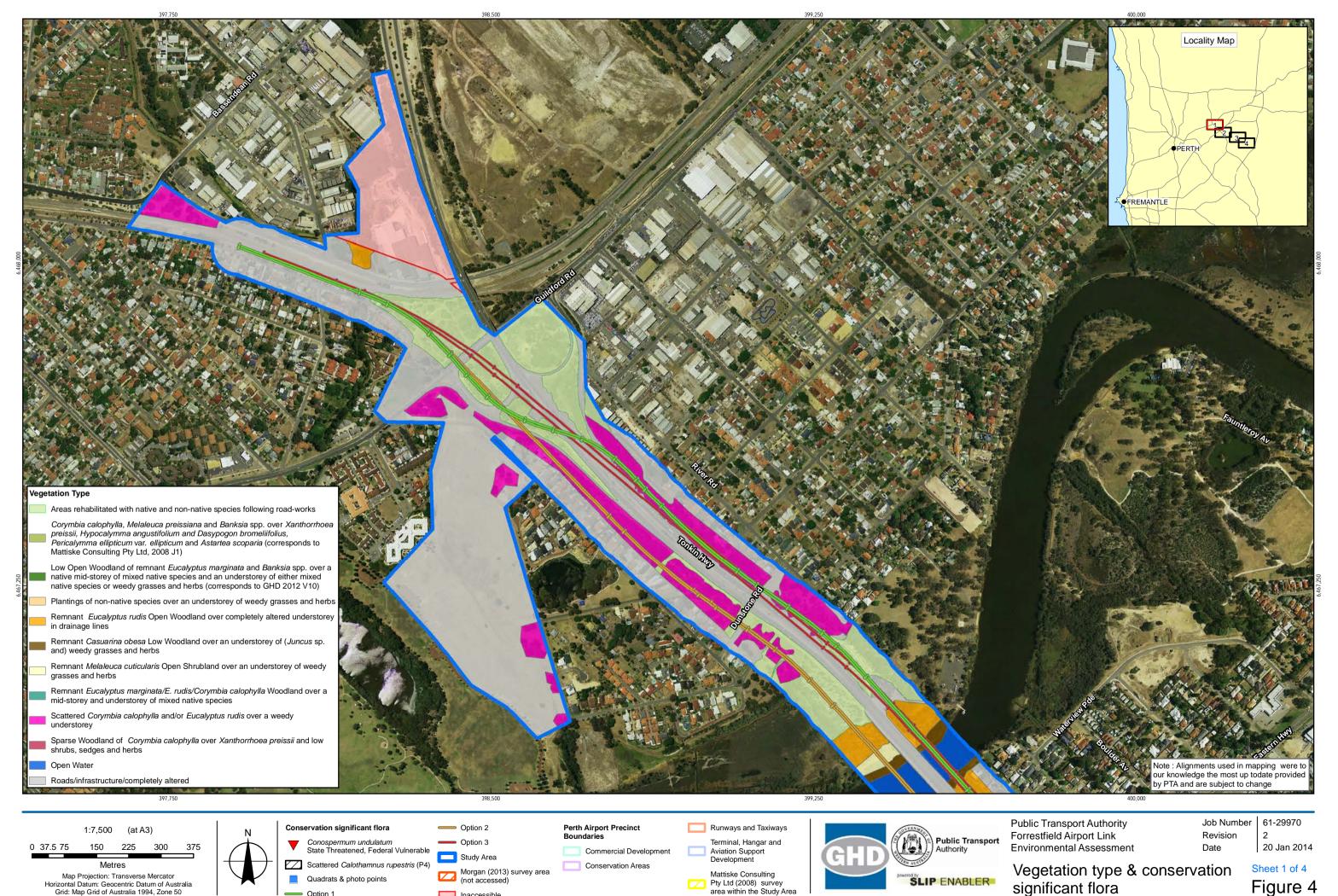
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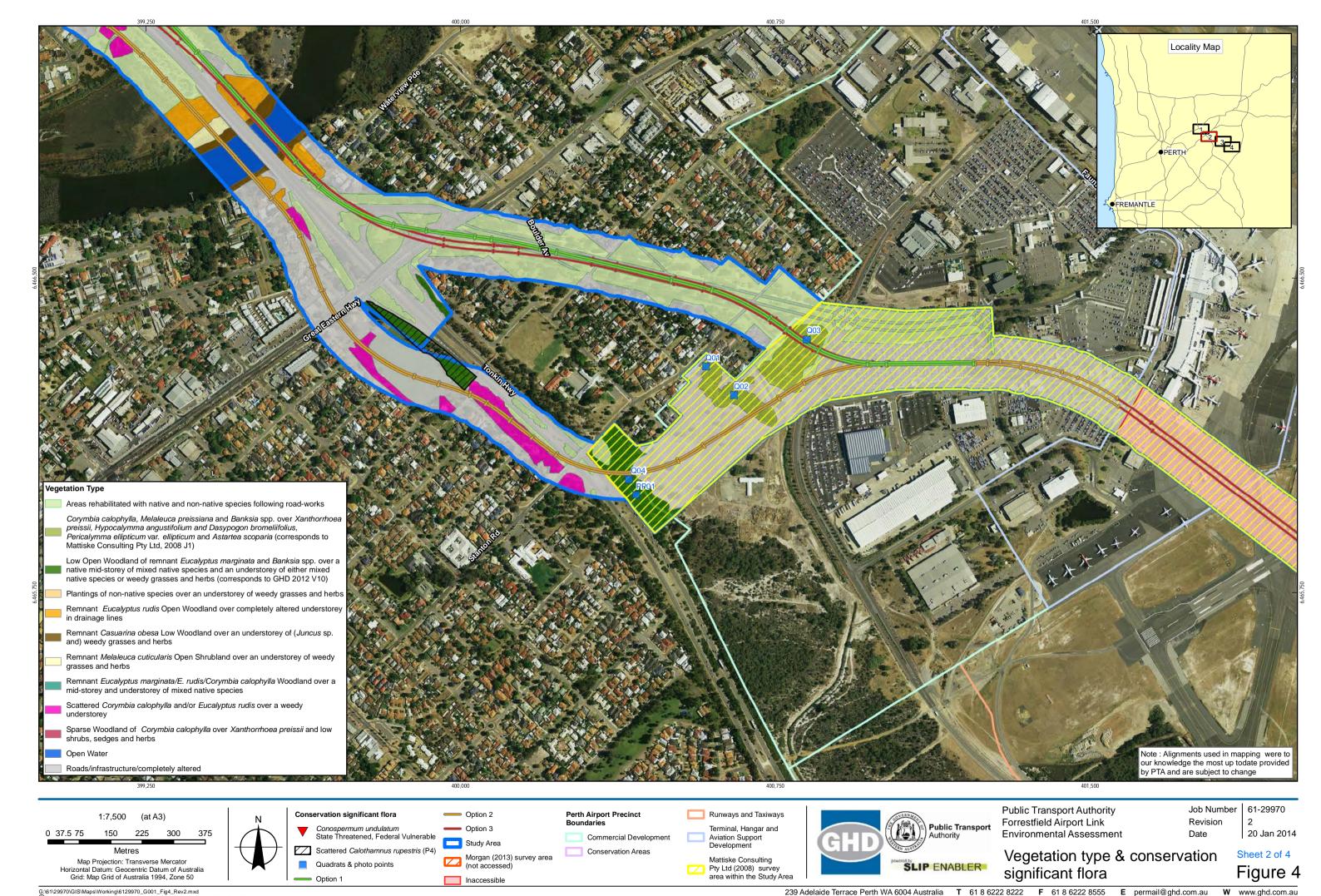
Desktop review: Surface water

Figure 3

Resource Enhancement

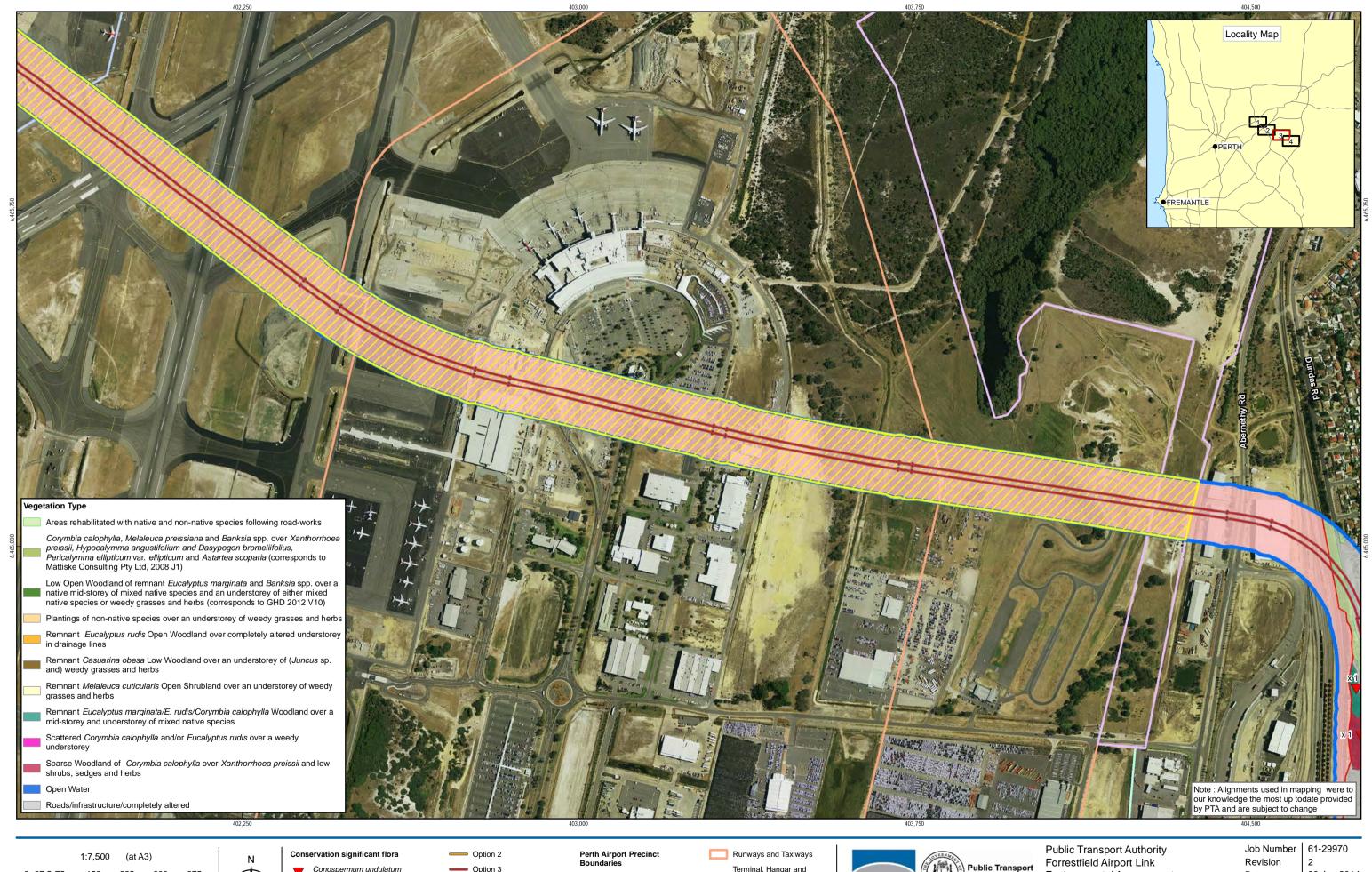
Multiple Use

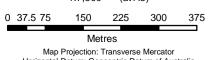




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© 239 Adelaide Terrace Perth WA 6004 Australia T 61 8 6222 822 F 61 8 6222 855 E permail@ (whiths revery care has been taken to prepare this map, GHD, DEC, GA, PTA and Landgate make no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and cannot accept liability and responsibility of any kind (whether in contract, tort or otherwise) for any expenses, losses, damages and/or costs (including indirect or consequential damage) which are or may be incurred by any party as a result of the map being inaccurate, incomplete or unsuitable in any way and for any reason.

Data source: PTA: Precinct boundary - 20131008, Options (1,2,3) 20131009, Landgate: Metro Central 2013 Mosaic - 20121211, Roads - 20121211, Scattered Calothramous "rupestrins(P4)" - 20131008, Threaten flora - 20130091, Morgan (2013) survey area - 20131001; GA: 250K Australian Topographic Series - 2006. Created by: vdinh





Horizontal Datum: Geocentric Datum of Australia Grid: Map Grid of Australia 1994, Zone 50



State Threatened, Federal Vulnerable Scattered Calothamnus rupestris (P4) Quadrats & photo points

Study Area Morgan (2013) survey area

(not accessed)

Commercial Development Conservation Areas

Terminal, Hangar and Aviation Support Development

Mattiske Consulting SLIP ENABLER Pty Ltd (2008) survey area within the Study Area

Forrestfield Airport Link Environmental Assessment Revision 20 Jan 2014

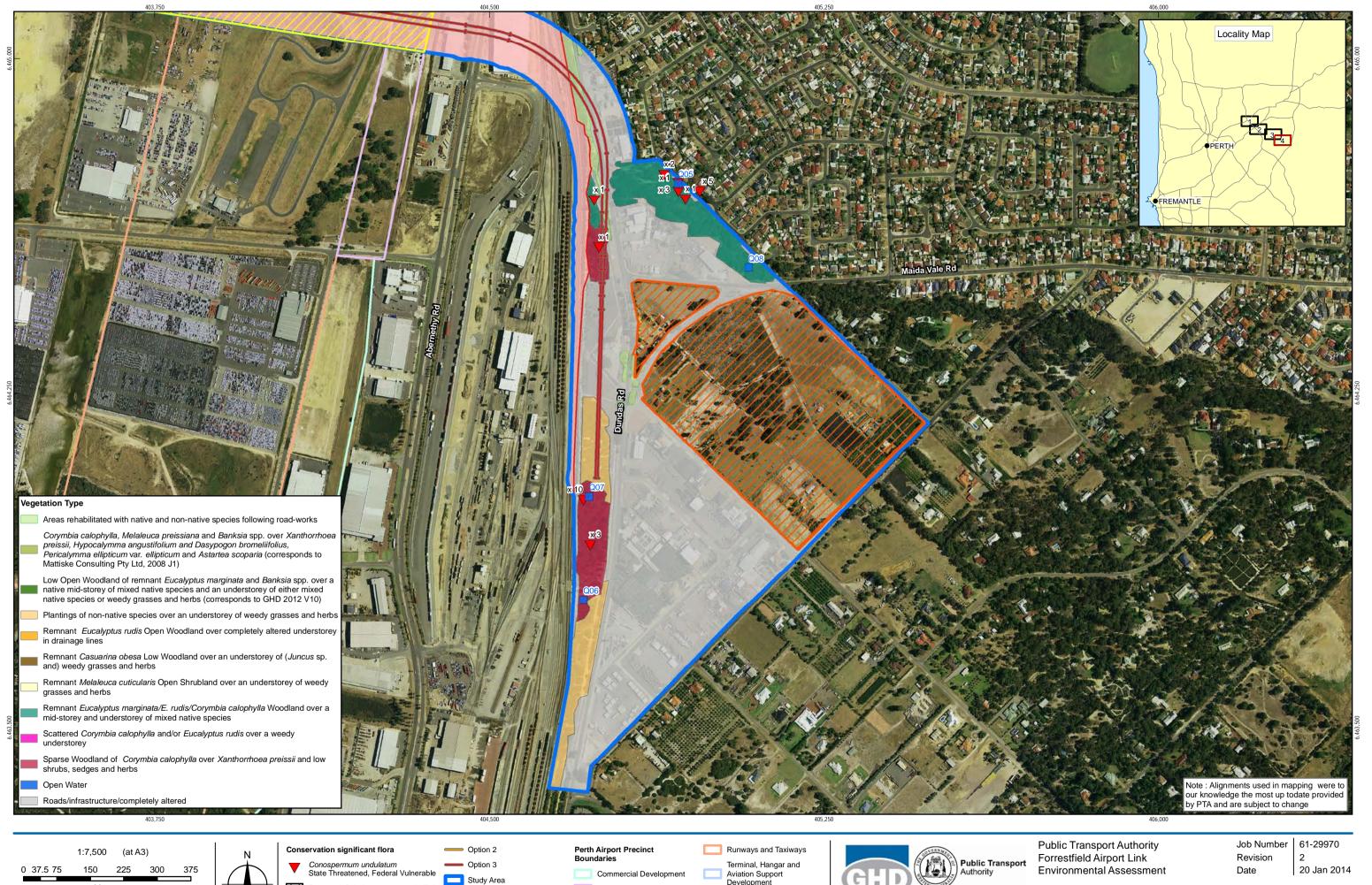
Vegetation type & conservation significant flora

Sheet 3 of 4 Figure 4

Inaccessible

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W www.ghd.com.au



Metres Map Projection: Transverse Mercator Horizontal Datum: Geocentric Datum of Australia Grid: Map Grid of Australia 1994, Zone 50

Scattered Calothamnus rupestris (P4) Quadrats & photo points

Option 1

Conservation Areas

Development

Mattiske Consulting

Pty Ltd (2008) survey area within the Study Area

SLIP ENABLER

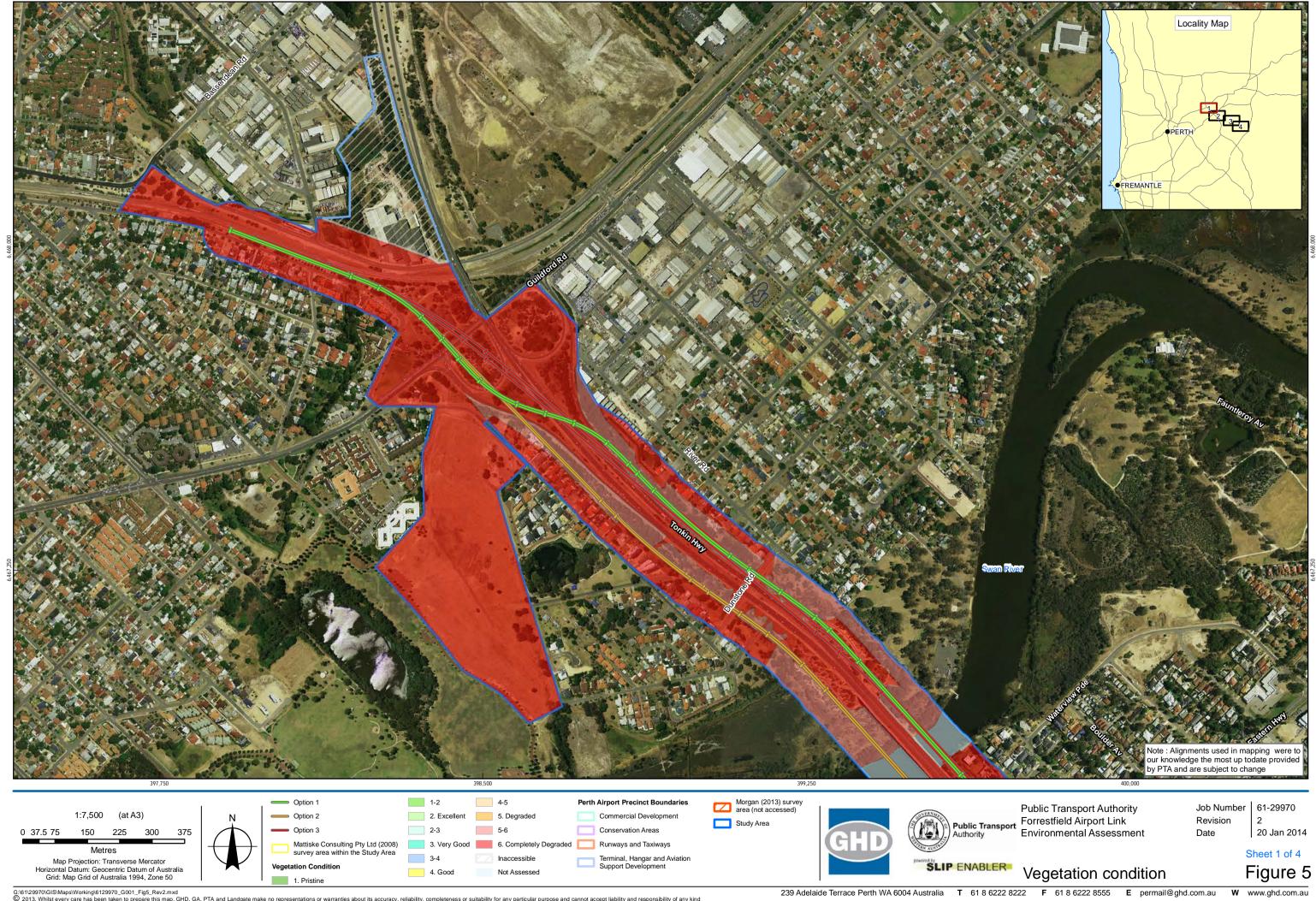
Vegetation type & conservation significant flora

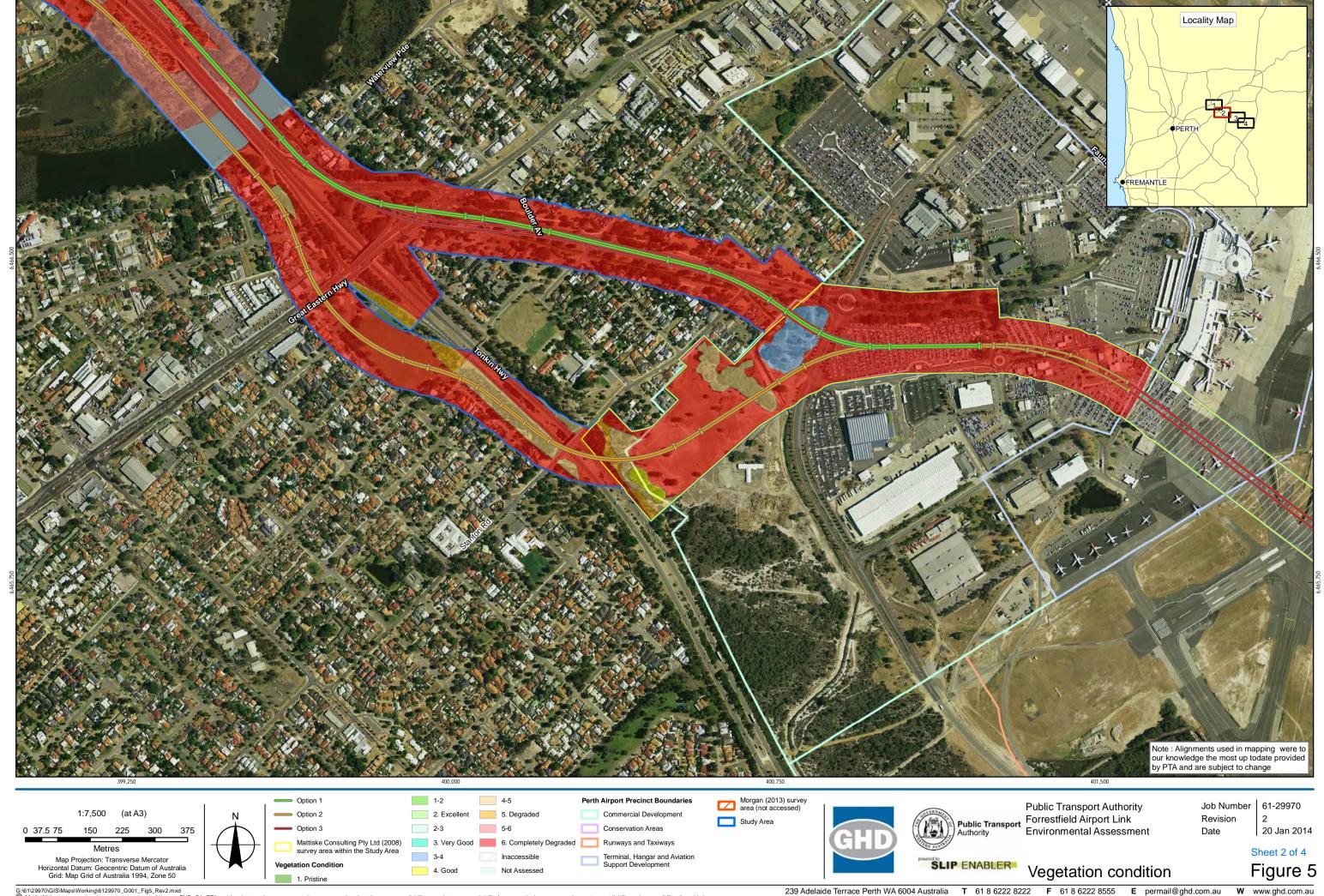
Sheet 4 of 4 Figure 4

(not accessed)

Inaccessible

Morgan (2013) survey area

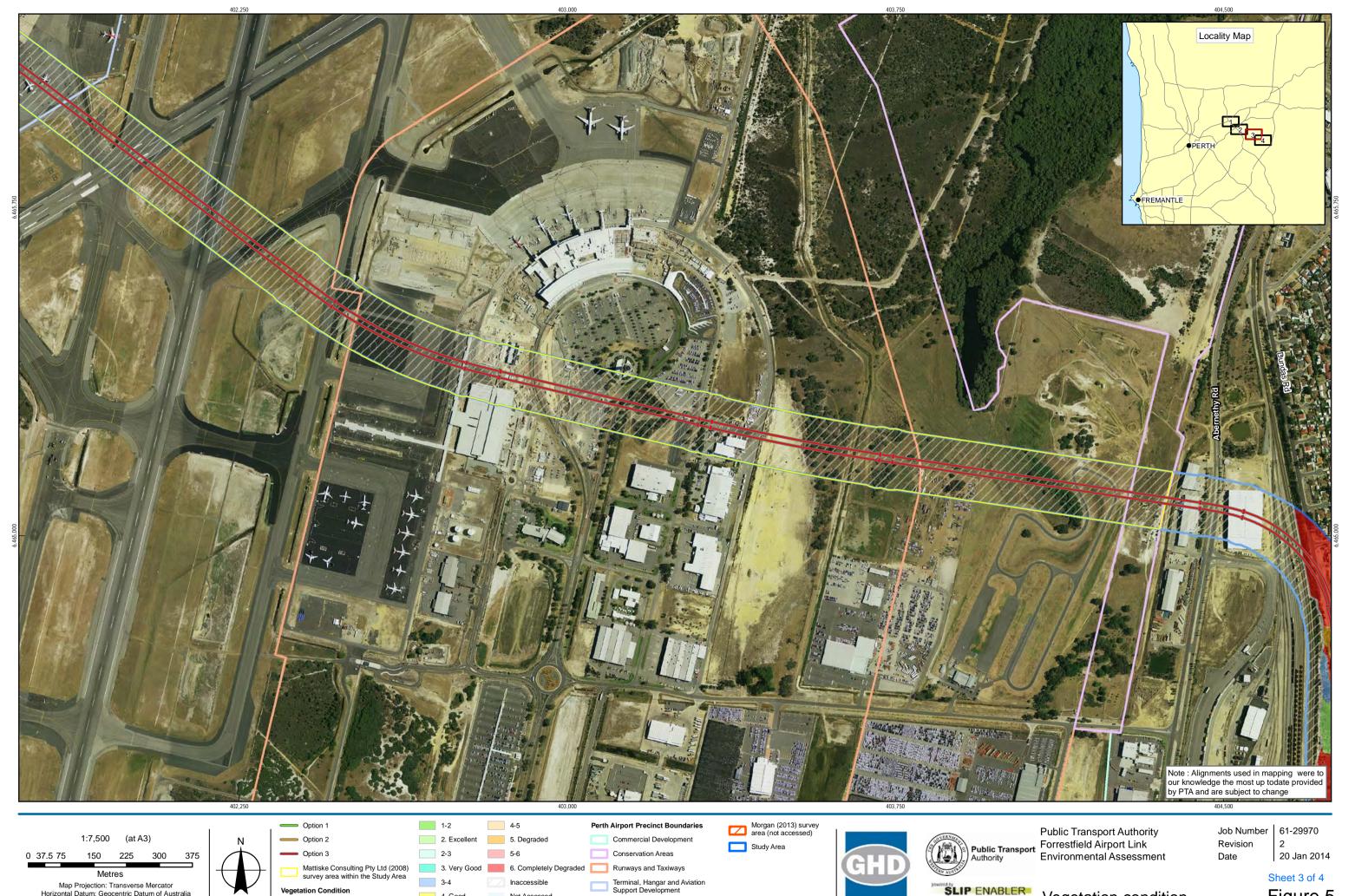




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Data source: PTA: Perth Airport Precinct Boundaries - 20131008, Options (1,2,3) - 20131009; Landgate: Metro Central 2013 Mosaic - 20121211, Roads - 20121211; GHD: Mattiske study area - 20131010, Vegetation Condition - 20131008, Morgan (2013) Survey Area -2013; GA: 250K Australian Topographic Series - 2006. Created by: vdinh



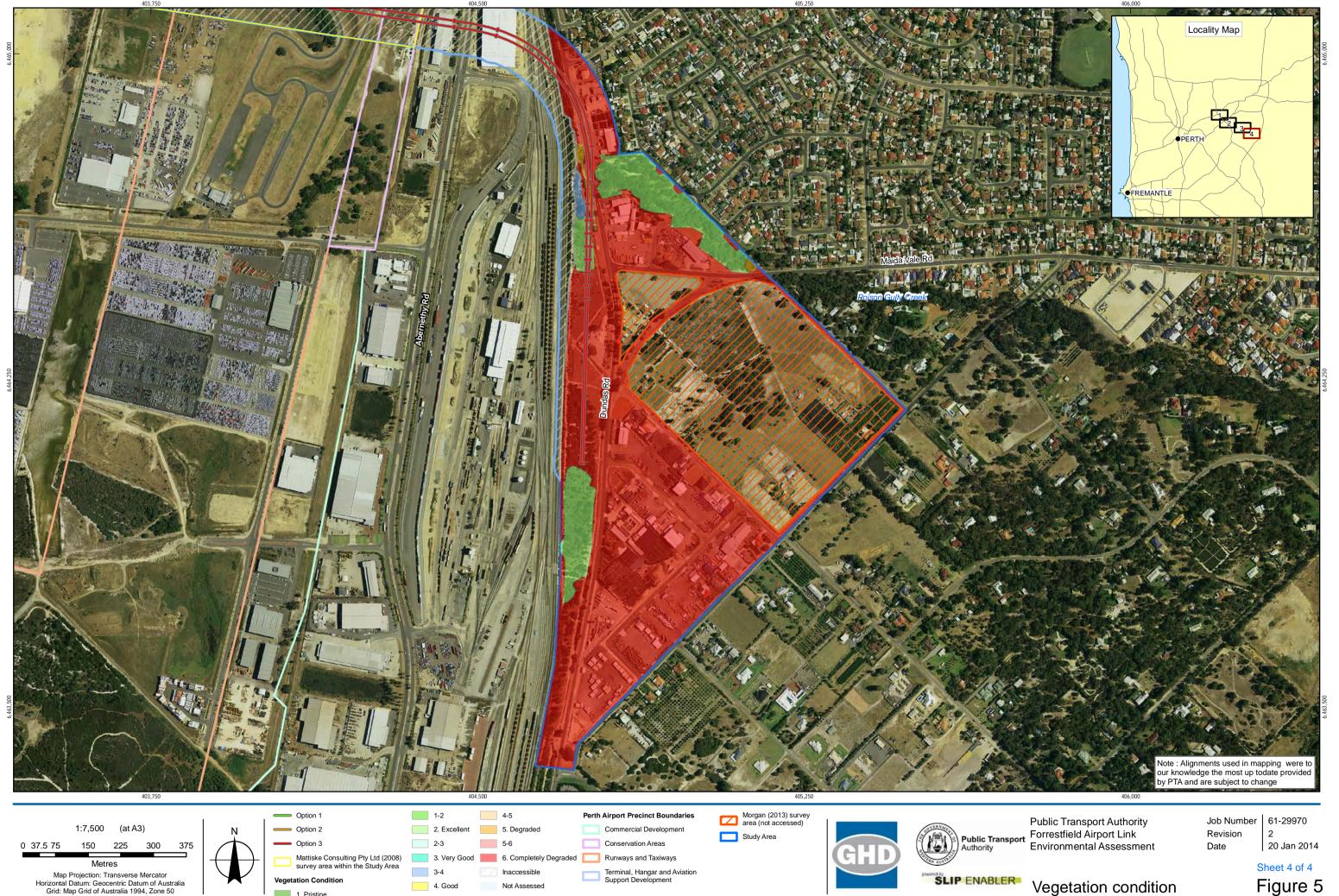
1. Pristine

Horizontal Datum: Geocentric Datum of Australia Grid: Map Grid of Australia 1994, Zone 50

SLIP ENABLER

Vegetation condition

Figure 5



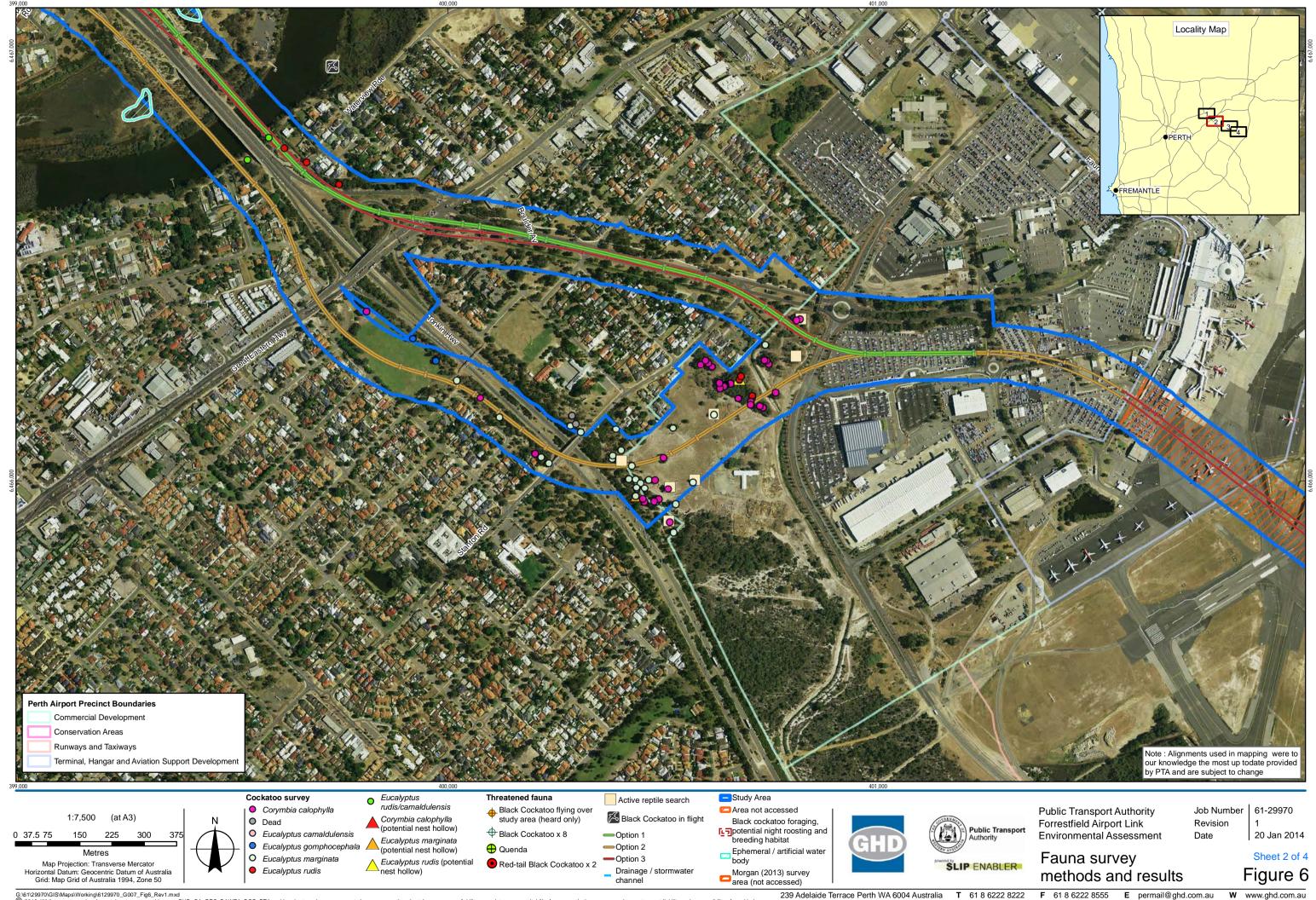
1. Pristine

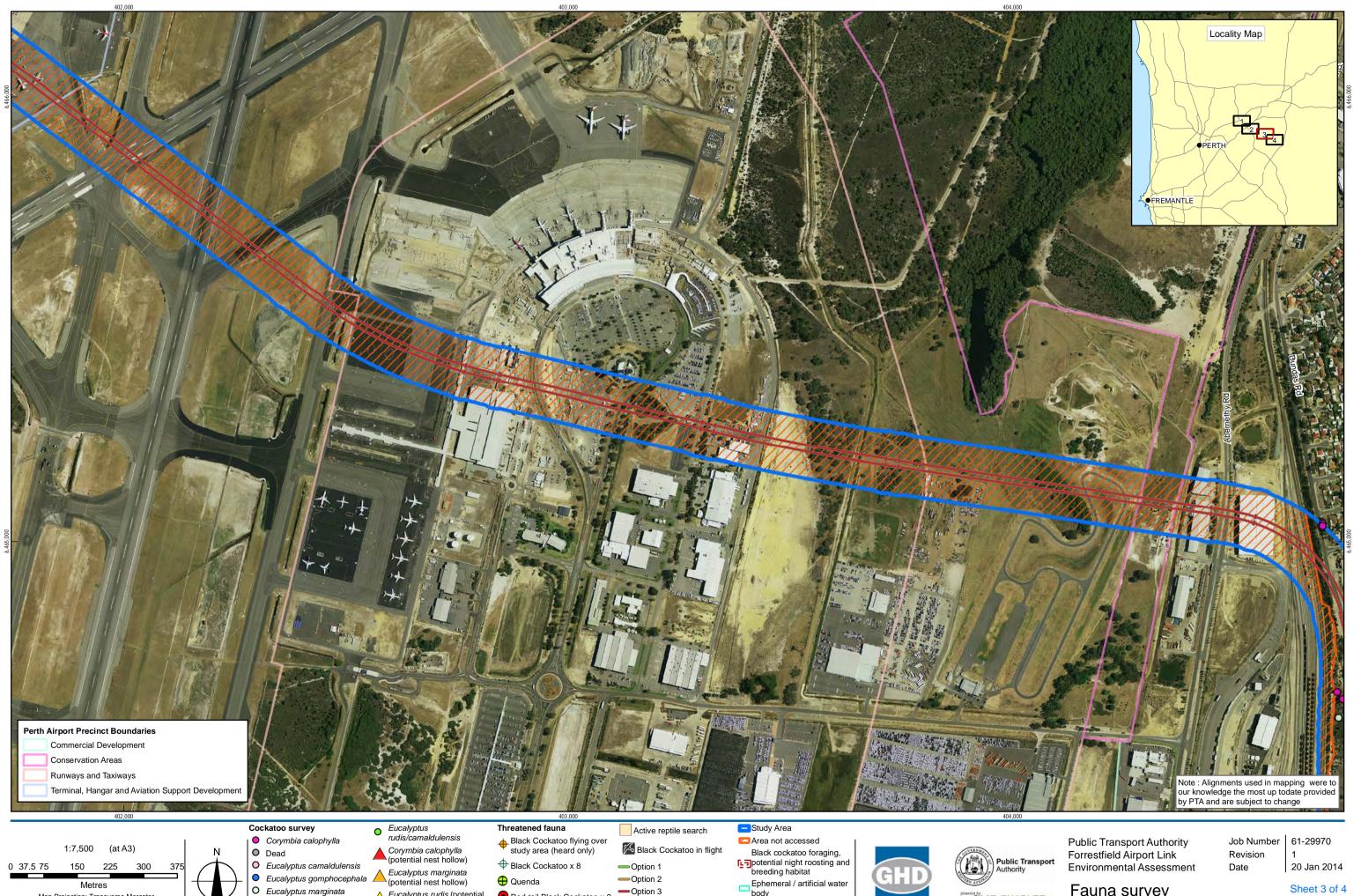
Vegetation condition

Figure 5



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Horizontal Datum: Geocentric Datum of Australia Grid: Map Grid of Australia 1994, Zone 50

Map Projection: Transverse Mercator

nest hollow)

Eucalyptus rudis

Eucalyptus rudis (potential

area (not accessed)

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Fauna survey

Sheet 3 of 4 Figure 6

methods and results

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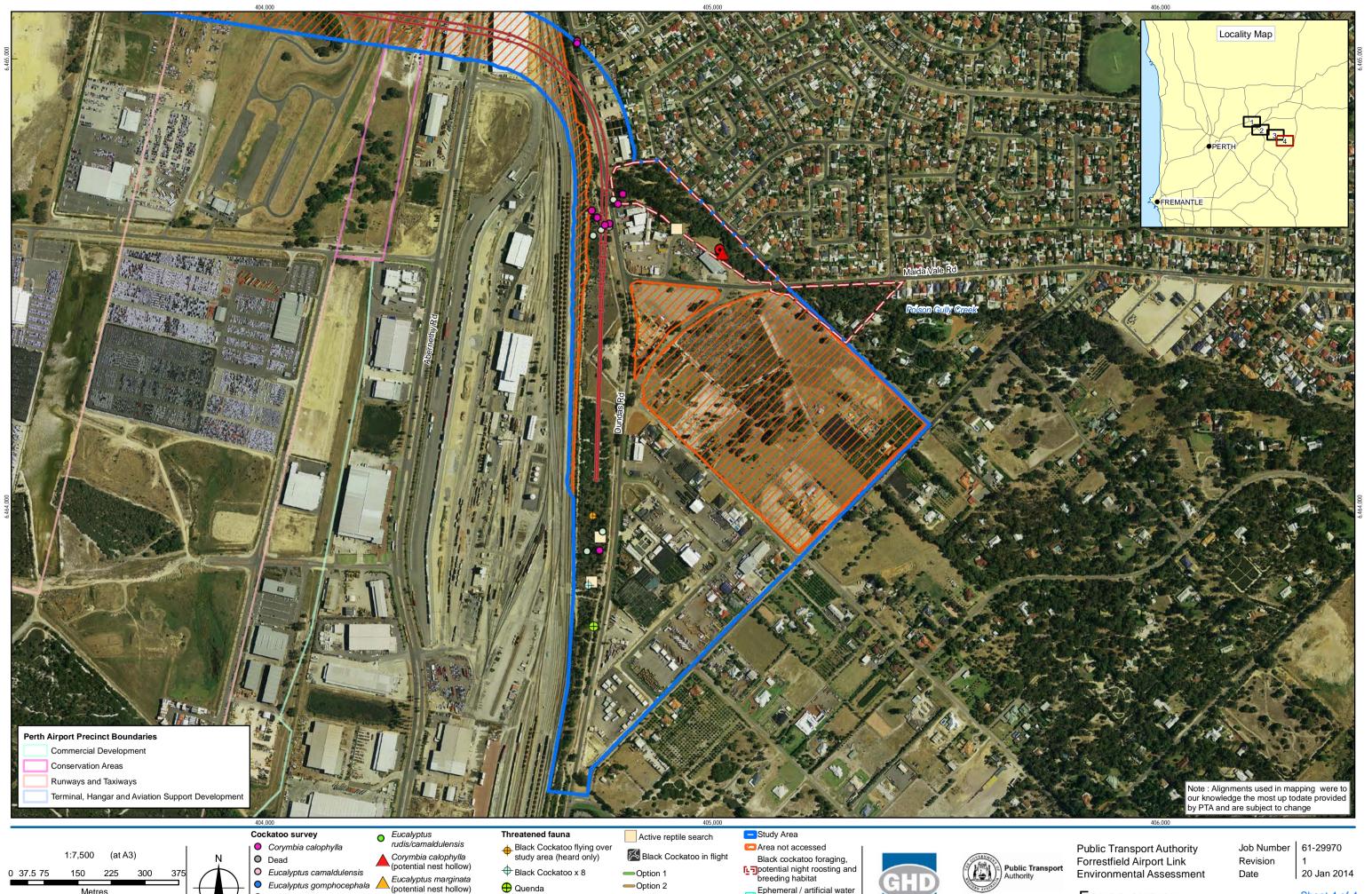
channel

Drainage / stormwater

Red-tail Black Cockatoo x 2

bodv

Morgan (2013) survey



Horizontal Datum: Geocentric Datum of Australia Grid: Map Grid of Australia 1994, Zone 50

Map Projection: Transverse Mercator

nest hollow)

Eucalyptus rudis (potential

O Eucalyptus marginata

Eucalyptus rudis

area (not accessed)

SLIP ENABLER

Fauna survey

Sheet 4 of 4 Figure 6

methods and results

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Drainage / stormwater

Option 3

channel

Red-tail Black Cockatoo x 2

bodv

Morgan (2013) survey

Appendix B — Desktop searches

Environmental Protection and Biodiversity Conservation Act 1990 (EPBC Act) search result

NatureMap flora search result

NatureMap fauna search result

EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information about the EPBC Act including significance guidelines, forms and application process details can be found at http://www.environment.gov.au/epbc/assessmentsapprovals/index.html

Report created: 28/11/12 15:51:36

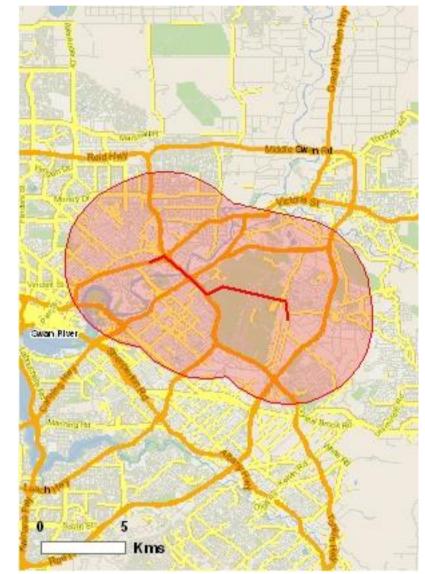
Summary

Details

Matters of NES
Other Matters Protected by the EPBC Act
Extra Information

Caveat

<u>Acknowledgements</u>



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

Coordinates
Buffer: 5.0Km



Summary

Matters of National Environment Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the Administrative Guidelines on Significance - see http://www.environment.gov.au/epbc/assessmentsapprovals/guidelines/index.html

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Areas:	None
Threatened Ecological Communities:	3
Threatened Species:	34

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place and the heritage values of a place on the Register of the National Estate. Information on the new heritage laws can be found at http://www.environment.gov.au/heritage/index.html

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

A permit may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species. Information on EPBC Act permit requirements and application forms can be found at http://www.environment.gov.

Commonwealth Lands:	4
Commonwealth Heritage Places:	3
Listed Marine Species:	9
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have

Place on the RNE:	58
State and Territory Reserves:	3
Regional Forest Agreements:	1
Invasive Species:	18
Nationally Important Wetlands:	2

Details

Matters of National Environmental Significance

Threatened Ecological Communities

[Resource Information]

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Name	Status	Type of Presence
Corymbia calophylla - Kingia australis woodlands	Endangered	Community known to
on heavy soils of the Swan Coastal Plain		occur within area
Claypans of the Swan Coastal Plain	Critically Endangered	Community likely to

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

data are used to produce indicative distribution maps.		
Name	Status	Type of Presence
Shrublands and Woodlands of the eastern Swan Coastal Plain	Endangered	occur within area Community known to occur within area
Threatened Species		[Resource Information
Name	Status	Type of Presence
BIRDS		
Calyptorhynchus banksii naso Forest Red-tailed Black-Cockatoo [67034]	Vulnerable	Species or species habitat may occur within area
Calyptorhynchus baudinii Baudin's Black-Cockatoo, Long-billed Black-Cockatoo [769] Calyptorhynchus latirostris	Vulnerable	Roosting known to occur within area
Carnaby's Black-Cockatoo, Short-billed Black-Cockatoo [59523] <u>Leipoa ocellata</u>	Endangered	Breeding likely to occur within area
Malleefowl [934]	Vulnerable	Species or species habitat may occur within area
Rostratula australis Australian Painted Snipe [77037]	Vulnerable	Species or species habitat likely to occur within area
Sternula nereis nereis Fairy Tern (Australian) [82950]	Vulnerable	Species or species habitat known to occur within area
INSECTS		
Synemon gratiosa Graceful Sun Moth [66757]	Endangered	Species or species habitat may occur within area
MAMMALS		
Dasyurus geoffroii		
Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat likely to occur within area
Phascogale calura Red-tailed Phascogale [316]	Endangered	Species or species habitat may occur within area
Setonix brachyurus Quokka [229]	Vulnerable	Species or species habitat may occur within area
PLANTS		
Acacia anomala Grass Wattle, Chittering Grass Wattle [8153]	Vulnerable	Species or species habitat likely to occur within area
Andersonia gracilis Slender Andersonia [14470]	Endangered	Species or species habitat likely to occur within area
Banksia mimica Summer Honeypot [82765]	Endangered	Species or species habitat likely to occur within area
Caladenia huegelii King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat likely to occur within area
Calytrix breviseta subsp. breviseta Swamp Starflower [23879]	Endangered	Species or species habitat likely to occur

within area

Name	Status	Type of Presence
Centrolepis caespitosa		
[6393]	Endangered	Species or species habitat likely to occur within area
Chamelaucium sp. Gingin (N.G.Marchant 6)		
Gingin Wax [64649]	Endangered	Species or species habitat may occur within area
Conospermum undulatum		
Wavy-leaved Smokebush [24435]	Vulnerable	Species or species habitat likely to occur within area
<u>Darwinia foetida</u>		
Muchea Bell [83190]	Critically Endangered	Species or species habitat likely to occur within area
Epiblema grandiflorum var. cyaneum		
Baby Blue Orchid, Blue Babe-in-the-cradle Orchid, Blue Babe-in-a-cradle [67182]	Endangered	Species or species habitat may occur within area
Eucalyptus balanites		
Cadda Road Mallee, Cadda Mallee [24264]	Endangered	Species or species habitat may occur within area
Grevillea curviloba subsp. incurva		
Narrow curved-leaf Grevillea [64909] Hydatella dioica	Endangered	Species or species habitat may occur within area
	Endongered	Charles or angeles
One-sexed Hydatella [4898]	Endangered	Species or species habitat likely to occur within area
Lasiopetalum pterocarpum		
Wing-fruited Lasiopetalum [64922]	Endangered	Species or species habitat may occur within area
<u>Lepidosperma rostratum</u>		
Beaked Lepidosperma [14152]	Endangered	Species or species habitat likely to occur within area
Macarthuria keigheryi		
Keighery's Macarthuria [64930]	Endangered	Species or species habitat likely to occur within area
Synaphea sp. Fairbridge Farm (D.Papenfus 696)		
Selena's Synaphea [82881]	Critically Endangered	Species or species habitat may occur within area
Thelymitra manginii K.Dixon & Batty ms.		•
[67443]	Endangered	Species or species habitat likely to occur within area
Thelymitra stellata	Fordersonad	0
Star Sun-orchid [7060]	Endangered	Species or species habitat likely to occur within area
Verticordia fimbrilepis subsp. fimbrilepis		
Shy Featherflower [24631]	Endangered	Species or species habitat may occur within area
Villarsia calthifolia		
Mountain Villarsia [10886]	Endangered	Species or species habitat likely to occur within area
REPTILES		
Caretta caretta		
Loggerhead Turtle [1763] Chelonia mydas	Endangered	Species or species habitat known to occur within area
Green Turtle [1765]	Vulnerable	Species or species
	Vaniciable	habitat may occur within area

Type of Presence Name Status **Dermochelys** coriacea Leatherback Turtle, Leathery Turtle, Luth [1768] Endangered Species or species habitat may occur within area Migratory Species [Resource Information] Species is listed under a different scientific name on the EPBC Act - Threatened Species list. Name Threatened Type of Presence Migratory Marine Birds Apus pacificus Fork-tailed Swift [678] Species or species habitat likely to occur within area Ardea alba Great Egret, White Egret [59541] Species or species habitat may occur within area Ardea ibis Cattle Egret [59542] Species or species habitat may occur within area Migratory Marine Species Caretta caretta Loggerhead Turtle [1763] Endangered Species or species habitat known to occur within area Chelonia mydas Green Turtle [1765] Vulnerable Species or species habitat may occur within area **Dermochelys coriacea** Leatherback Turtle, Leathery Turtle, Luth [1768] Endangered Species or species habitat may occur within area Migratory Terrestrial Species Haliaeetus leucogaster White-bellied Sea-Eagle [943] Species or species habitat likely to occur within area Leipoa ocellata Species or species Malleefowl [934] Vulnerable habitat may occur within area Merops ornatus Rainbow Bee-eater [670] Species or species habitat may occur within area Migratory Wetlands Species Ardea alba Great Egret, White Egret [59541] Species or species habitat may occur within area Ardea ibis Cattle Egret [59542] Species or species habitat may occur within area Rostratula benghalensis (sensu lato) Painted Snipe [889] Vulnerable* Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Lands [Resource Information]

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

Name

Commonwealth Land -

Defence - BUSHMEAD RIFLE RANGE

Name Defence - BUSHMEAD TRAINING AREA Defence - PALMER BARRACKS - SOUTH GUILDFORD Commonwealth Heritage Places [Resource Information] Name State **Status Natural** Forrestfield Bushland WA Indicative Place Munday Swamp and Surrounding Bushland WA Indicative Place Historic **Inglewood Post Office** Listed place WA [Resource Information] **Listed Marine Species** Species is listed under a different scientific name on the EPBC Act - Threatened Species list. Type of Presence **Threatened** Name Birds Apus pacificus Fork-tailed Swift [678] Species or species habitat likely to occur within area Ardea alba Great Egret, White Egret [59541] Species or species habitat may occur within area Ardea ibis Species or species Cattle Egret [59542] habitat may occur within area Haliaeetus leucogaster White-bellied Sea-Eagle [943] Species or species habitat likely to occur within area Merops ornatus Rainbow Bee-eater [670] Species or species habitat may occur within area Rostratula benghalensis (sensu lato) Painted Snipe [889] Vulnerable* Species or species habitat likely to occur within area Reptiles Caretta caretta Loggerhead Turtle [1763] Species or species Endangered

habitat known to occur

within area

Chelonia mydas

Species or species habitat may occur within

area

Dermochelys coriacea

Green Turtle [1765]

Leatherback Turtle, Leathery Turtle, Luth [1768] Endangered Species or species

habitat may occur within

area

Extra Information

[Resource Information] Places on the RNE Note that not all Indigenous sites may be listed.

Vulnerable

Name State **Status Natural** Midgegooroo and Kalleep Munday Heritage Precincts WA Indicative Place Swan River Foreshore, Maylands WA Indicative Place Bushmead Rifle Range Area Registered WA Bushmead Rifle Range Commonwealth Area WA Registered Forrestfield Bushland WA Registered

Name	State	Status
Munday Swamp Bushland	WA	Registered
Munday Swamp and Surrounding Bushland	WA	Registered
Historic		
Albany Bell Hatchery (former)	WA	Indicative Place
City of Bayswater Administration Centre	WA	Indicative Place
<u>Daylesford House</u>	WA	Indicative Place
Earlsferry House and Grounds	WA	Indicative Place
East Perth Power Station (former)	WA	Indicative Place
Halliday House	WA	Indicative Place
Independent Chapel (former)	WA	Indicative Place
Maylands Aerodrome (former) Precinct	WA	Indicative Place
Maylands Brickworks Group	WA	Indicative Place
Old Bristile Kilns	WA	Indicative Place
Royal West Australian Institute for the Blind Building	WA	Indicative Place
Walcott Centre	WA	Indicative Place
Wiinschl Residence and Surrounds	WA	Indicative Place
Albany Bell Castle Buildings Parkers Warehouse (former)	WA	Registered
Barkers Warehouse (former)	WA MA	Registered
Bebo Moro (former) Brockman House (former)	WA WA	Registered Registered
Building	WA	Registered
<u>Building</u> Building	WA	Registered
Chateau Guildford	WA	Registered
Courthouse and Gaol (former)	WA	Registered
Crossland House (former)	WA	Registered
Fairholme	WA	Registered
Fairholme Servants Quarters	WA	Registered
Foothills School	WA	Registered
Garden Hill (former)	WA	Registered
Garrick Theatre	WA	Registered
Guildford Conservation Area	WA	Registered
Guildford Historic Town	WA	Registered
Guildford Post Office	WA	Registered
Guildford Tavern	WA	Registered
<u>House</u>	WA	Registered
<u>House</u>	WA	Registered
House and former Bakery	WA	Registered
Johnsons Mill	WA	Registered
Kings House and Shop	WA	Registered
Lieutenant Du Canes House and Stables	WA	Registered
<u>Liverpool Arms Hotel (former)</u>	WA	Registered
Mechanics Institute (former)	WA	Registered
Moultons Cottage	WA	Registered
Nulsen Haven	WA	Registered
Padbury Stores (former)	WA	Registered
Peninsula Hotel (former)	WA	Registered
Pensioners Cottage (former)	WA	Registered
Primary School Research Group Hetel	WA	Registered
Rose and Crown Hotel St Matthews Angliage Church	WA	Registered
St Matthews Anglican Church Town Hall and Council Offices (former)	WA	Registered
Town Hall and Council Offices (former)	WA	Registered
Tranby House Welbeurne House	WA	Registered
Wesley Chanel	WA WA	Registered Registered
Wesley Chapel	v v 🕰	Registered
State and Territory Reserves		[Resource Information]
Name		State
Unnamed WA29815		WA
Unnamed WA37997		WA
Unnamed WA49079		WA
Regional Forest Agreements		[Resource Information]
Note that all areas with completed RFAs have been included.		
Name		2 1. 1

State

Western Australia

Name

South West WA RFA

Invasive Species		[Resource Information
Weeds reported here are the 20 species of nat plants that are considered by the States and Tebiodiversity. The following feral animals are repand Cane Toad. Maps from Landscape Health	erritories to pose a particul ported: Goat, Red Fox, Cat	larly significant threat to t, Rabbit, Pig, Water Buffalo
Name	Status	Type of Presence
Mammals		
Capra hircus Goat [2]		Species or species habitat likely to occur within area
Felis catus		
Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Oryctolagus cuniculus		
Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Sus scrofa		
Pig [6]		Species or species habitat likely to occur within area
<u>Vulpes vulpes</u>		
Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Asparagus asparagoides		
Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]		Species or species habitat likely to occur within area
Brachiaria mutica		Within area
Para Grass [5879]		Species or species habitat may occur within area
Cenchrus ciliaris		
Buffel-grass, Black Buffel-grass [20213]		Species or species habitat may occur within area

Chrysanthemoides monilifera Bitou Bush, Boneseed [18983] Species or species habitat may occur within area

Genista sp. X Genista monspessulana Broom [67538] Species or species habitat may occur within area

Lantana camara Lantana, Common Lantana, Kamara Lantana, Species or species Large-leaf Lantana, Pink Flowered Lantana, Red habitat likely to occur Flowered Lantana, Red-Flowered Sage, White within area Sage, Wild Sage [10892] Lycium ferocissimum

African Boxthorn, Boxthorn [19235] Species or species habitat may occur within area

Olea europaea Olive, Common Olive [9160] Species or species habitat may occur within area

Pinus radiata Radiata Pine Monterey Pine, Insignis Pine, Wilding Species or species habitat may occur within Pine [20780] area

Rubus fruticosus aggregate Blackberry, European Blackberry [68406] Species or species habitat likely to occur within area

Salix spp. except S.babylonica, S.x calodendron & S.x reichardtii Willows except Weeping Willow, Pussy Willow and Species or species Sterile Pussy Willow [68497] habitat likely to occur within area

Name	Status	Type of Presence
Salvinia molesta		
Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		Species or species habitat likely to occur within area
Tamarix aphylla		Within Grod
Athel Pine, Athel Tree, Tamarisk, Athel Tamarisk, Athel Tamarix, Desert Tamarisk, Flowering Cypress, Salt Cedar [16018]		Species or species habitat likely to occur within area
Nationally Important Wetlands		[Resource Information]
Name		State
Perth Airport Woodland Swamps		WA
Swan-Canning Estuary		WA

Coordinates

-31.924636 115.91772,-31.921134 115.926096,-31.933621 115.941172,-31.941388 115.948634,-31.937581 115.957467,-31.945043 115.991579,-31.955093 115.992797

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World Heritage and Register of National Estate properties, Wetlands of International Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under 'type of presence'. For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- -Department of Environment, Climate Change and Water, New South Wales
- -Department of Sustainability and Environment, Victoria
- -Department of Primary Industries, Parks, Water and Environment, Tasmania
- -Department of Environment and Natural Resources, South Australia
- -Parks and Wildlife Service NT, NT Dept of Natural Resources, Environment and the Arts
- -Environmental and Resource Management, Queensland
- -Department of Environment and Conservation, Western Australia

- -Department of the Environment, Climate Change, Energy and Water
- -Birds Australia
- -Australian Bird and Bat Banding Scheme
- -Australian National Wildlife Collection
- -Natural history museums of Australia
- -Museum Victoria
- -Australian Museum
- -SA Museum
- -Queensland Museum
- -Online Zoological Collections of Australian Museums
- -Queensland Herbarium
- -National Herbarium of NSW
- -Royal Botanic Gardens and National Herbarium of Victoria
- -Tasmanian Herbarium
- -State Herbarium of South Australia
- -Northern Territory Herbarium
- -Western Australian Herbarium
- -Australian National Herbarium, Atherton and Canberra
- -University of New England
- -Ocean Biogeographic Information System
- -Australian Government, Department of Defence
- -State Forests of NSW
- -Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the Contact Us page.

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NatureMap Flora Species Report 5 km

Created By Guest user on 28/11/2012

Kingdom Plantae **Current Names Only** Yes Core Datasets Only Yes Method 'By Line' Group By Family

amily	Species	Records
Istroemeriaceae maranthaceae	1 7	1 13
nacardiaceae	1	3
narthriaceae	2	18
piaceae	16	39
pocynaceae	1	1
raceae	4	9
raliaceae	6	13
sparagaceae	27 1	107 2
sphodelaceae steraceae	58	128
oraginaceae	3	120
rassicaceae	7	12
ryaceae	6	ç
yblidaceae	1	11
ampanulaceae	8	22
annaceae	2	5
aprifoliaceae	1	1
aryophyllaceae asuarinaceae	4 3	24
elastraceae	2	24
entrolepidaceae	7	18
henopodiaceae	10	20
olchicaceae	4	19
ommelinaceae	1	4
onvolvulaceae	2	10
rassulaceae	6	17
upressaceae	1	1
yperaceae	65	150
asypogonaceae	4	21
ennstaedtiaceae	1 3	1
icranaceae illeniaceae	3 14	55
ioscoreaceae	1	1
itrichaceae	1	1
roseraceae	20	62
laeocarpaceae	3	10
latinaceae	1	2
ricaceae	27	102
uphorbiaceae	9	17
abaceae	112	416
issidentaceae	1 1	1
unariaceae entianaceae	2	3
eraniaceae	3	6
oodeniaceae	23	77
racilariaceae	1	1
aemodoraceae	33	163
aloragaceae	10	29
emerocallidaceae	13	46
ydatellaceae	2	3
ydrocharitaceae	3	4
ypericaceae	1	2
ypoxidaceae	2 20	50
idaceae uncaceae	9	14
uncaginaceae	4	7
amiaceae	9	22
auraceae	5	7
entibulariaceae	5	19
naceae	2	2
oganiaceae	1	•
oranthaceae	3	3
		•
ythraceae	1	^
alvaceae	10	
alvaceae larsileaceae	10 2	4
alvaceae larsileaceae lenyanthaceae	10 2 4	6
lalvaceae arsileaceae lenyanthaceae olluginaceae	10 2 4 3	2 2
lalvaceae arsileaceae lenyanthaceae olluginaceae oraceae	10 2 4	2 6 24 1
lalvaceae arsileaceae lenyanthaceae olluginaceae	10 2 4 3 1	24 24 254
alvaceae arsileaceae lenyanthaceae olluginaceae oraceae yrtaceae lacaceae nagraceae	10 2 4 3 1 71	24 254 254
lalvaceae arsileaceae lenyanthaceae olluginaceae loraceae yrtaceae lacaceae nagraceae rchidaceae	10 2 4 3 1 71 2 4 62	24 254 254
lalvaceae larsileaceae lenyanthaceae lolluginaceae oraceae yyrtaceae lacaceae nagraceae rchidaceae robanchaceae	10 2 4 3 1 71 2 4 62	25- 25- 16:
alvaceae arsileaceae lenyanthaceae olluginaceae oraceae lyrtaceae lacaceae nagraceae robinaceae robinaceae xalidaceae xalidaceae	10 2 4 3 1 71 2 4 62 1 5	34 6 22 1 254 7 8 163
alvaceae arsileaceae lenyanthaceae lolluginaceae loraceae lyrtaceae lacaceae nagraceae rchidaceae robanchaceae apaveraceae apaveraceae	10 2 4 3 1 71 2 4 62 1 5 3	25- 25- 16- 11
alvaceae arsileaceae lenyanthaceae olluginaceae oraceae lyrtaceae lacaceae nagraceae robinaceae robinaceae xalidaceae xalidaceae	10 2 4 3 1 71 2 4 62 1 5	25- 25- 16:





TOTAL	1056	3320
Zamiaceae	1	1
Xanthorrhoeaceae	2	4
Violaceae	1	7
Verbenaceae	2	2
Typhaceae	1	1
Tropaeolaceae	1	2
Thymelaeaceae	6	16
Tecophilaeaceae	1	2
Stylidiaceae	33	110
Solanaceae	10	27
Sematophyllaceae	.1	2
Selaginellaceae	1	2
Scrophulariaceae	3	3
Schizaeaceae	1	1
Santalaceae	1	3
Salviniaceae	1	1
Salicaceae	2	7
Rutaceae	5	23
Rubiaceae	1	2
Rosaceae	2	3
Rhamnaceae	6	13
Restionaceae	21	74
Ranunculaceae	3	5
Pteridaceae	2	5
Proteaceae	75	471
Primulaceae	3	3
Pottiaceae	3	7
Potamogetonaceae	1	4
Portulacaceae	1	2
Polygonaceae	4	8
Polygalaceae	4	11
Poaceae	67	121
Plantaginaceae	7	11





	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que Area
Alstroemer	iaceae				
1.	20755	Alstroemeria psittacina	Υ		
Amarantha	ceae				
2.		Alternanthera denticulata (Lesser Joyweed)			
3.		Amaranthus powellii (Powell's Amaranth)	Υ		
4.		Ptilotus declinatus (Curved Mulla Mulla)			
5.		Ptilotus drummondii var. drummondii (Pussytail)			
6.		Ptilotus drummondii var. minor			
7.		Ptilotus esquamatus			
8.		Ptilotus manglesii (Pom Poms)			
Anacardiad					
9.	11027	Schinus terebinthifolius	Υ		
Anarthriac	eae				
10.	1097	Lyginia barbata			
11.	18049	Lyginia imberbis			
Apiaceae					
12.		Actinotus leucocephalus (Flannel Flower)			
13.		Apium prostratum var. prostratum (Sea Celery)			
14.		Centella asiatica			
15.		Daucus glochidiatus (Australian Carrot)			
16.		Eryngium pinnatifidum (Blue Devils)			
17.	14720	Eryngium subdecumbens		P3	
18.	6221	Foeniculum vulgare (Fennel)	Υ		
19.	6222	Homalosciadium homalocarpum			
20.	6245	Pentapeltis peltigera			
21.	6249	Platysace compressa (Tapeworm Plant)			
22.	6253	Platysace filiformis			
23.	6255	Platysace juncea			
24.	11132	Platysace ramosissima		P3	
25.	6263	Schoenolaena juncea			
26.	6284	Xanthosia candida			
27.	6289	Xanthosia huegelii			
Anocynace	30				
Apocynace 28.		Gomphocarpus fruticosus (Narrowleaf Cottonbush)	Υ		
20.	0507	Comprided pus inducesus (Narrowied Collonidary)	'		
Araceae					
29.	32999	Colocasia esculenta var. esculenta	Υ		
30.		Landaltia nunatata (Thin Dualeusad)			
	28342	Landoltia punctata (Thin Duckweed)			
31.		Landolla punctata (Trin Duckweed) Lemna disperma (Duckweed)			
	1051		Y		
31. 32.	1051	Lemna disperma (Duckweed)	Y		
31. 32. Araliaceae	1051 1049	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily)	Y		
31. 32. Araliaceae 33.	1051 1049 6226	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort)	Y		
31. 32. Araliaceae 33. 34.	1051 1049 6226 6229	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha	Y		
31. 32. Araliaceae 33. 34. 35.	1051 1049 6226 6229 6233	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort)	Y	P4	
31. 32. Araliaceae 33. 34. 35. 36.	1051 1049 6226 6229 6233 11074	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata	Y	P4 P1	
31. 32. Araliaceae 33. 34. 35. 36. 37.	1051 1049 6226 6229 6233 11074 19041	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea	Y		
31. 32. Araliaceae 33. 34. 35. 36.	1051 1049 6226 6229 6233 11074	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37.	1051 1049 6226 6229 6233 11074 19041 6280	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37. 38. Asparagac	1051 1049 6226 6229 6233 11074 19041 6280	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea Trachymene pilosa (Native Parsnip)	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37.	1051 1049 6226 6229 6233 11074 19041 6280 eae	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37. 38. Asparagac 39.	1051 1049 6226 6229 6233 11074 19041 6280 eae 11299 8788	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea Trachymene pilosa (Native Parsnip) Chamaescilla corymbosa var. corymbosa Chamaescilla versicolor	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37. 38. Asparagac 39. 40.	1051 1049 6226 6229 6233 11074 19041 6280 eae 11299 8788 1287	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea Trachymene pilosa (Native Parsnip) Chamaescilla corymbosa var. corymbosa Chamaescilla versicolor Dichopogon capillipes	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37. 38. Asparagac 39. 40. 41. 42.	1051 1049 6226 6229 6233 11074 19041 6280 eae 11299 8788 1287 11815	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea Trachymene pilosa (Native Parsnip) Chamaescilla corymbosa var. corymbosa Chamaescilla versicolor Dichopogon capillipes Laxmannia grandiflora subsp. grandiflora	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37. 38. Asparagac 39. 40. 41. 42. 43.	1051 1049 6226 6229 6233 11074 19041 6280 eae 11299 8788 1287 11815 11911	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea Trachymene pilosa (Native Parsnip) Chamaescilla corymbosa var. corymbosa Chamaescilla versicolor Dichopogon capillipes Laxmannia grandiflora subsp. grandiflora Laxmannia ramosa subsp. ramosa	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37. 38. Asparagac 39. 40. 41. 42. 43. 44.	1051 1049 6226 6229 6233 11074 19041 6280 eae 11299 8788 1287 11815 11911	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea Trachymene pilosa (Native Parsnip) Chamaescilla corymbosa var. corymbosa Chamaescilla versicolor Dichopogon capillipes Laxmannia grandiflora subsp. grandiflora Laxmannia ramosa subsp. ramosa Laxmannia sessiliflora subsp. australis	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37. 38. Asparagac 39. 40. 41. 42. 43. 44.	1051 1049 6226 6229 6233 11074 19041 6280 eae 11299 8788 1287 11815 11911 11464 1309	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea Trachymene pilosa (Native Parsnip) Chamaescilla corymbosa var. corymbosa Chamaescilla versicolor Dichopogon capillipes Laxmannia grandiflora subsp. grandiflora Laxmannia ramosa subsp. ramosa Laxmannia sessiliflora subsp. australis Laxmannia squarrosa	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37. 38. Asparagac 39. 40. 41. 42. 43. 44. 45.	1051 1049 6226 6229 6233 11074 19041 6280 eae 11299 8788 1287 11815 11911 11464 1309 1223	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea Trachymene pilosa (Native Parsnip) Chamaescilla corymbosa var. corymbosa Chamaescilla versicolor Dichopogon capillipes Laxmannia grandiflora subsp. grandiflora Laxmannia ramosa subsp. ramosa Laxmannia sessiliflora subsp. australis Laxmannia squarrosa Lomandra caespitosa (Tufted Mat Rush)	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37. 38. Asparagac 39. 40. 41. 42. 43. 44. 45. 46. 47.	1051 1049 6226 6229 6233 11074 19041 6280 eae 11299 8788 1287 11815 11911 11464 1309 1223 1228	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea Trachymene pilosa (Native Parsnip) Chamaescilla corymbosa var. corymbosa Chamaescilla versicolor Dichopogon capillipes Laxmannia grandiflora subsp. grandiflora Laxmannia ramosa subsp. ramosa Laxmannia sessiliflora subsp. australis Laxmannia squarrosa Lomandra caespitosa (Tufted Mat Rush) Lomandra hermaphrodita	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37. 38. Asparagac 39. 40. 41. 42. 43. 44. 45. 46. 47.	1051 1049 6226 6229 6233 11074 19041 6280 eae 11299 8788 1287 11815 11911 11464 1309 1223 1228 14542	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea Trachymene pilosa (Native Parsnip) Chamaescilla corymbosa var. corymbosa Chamaescilla versicolor Dichopogon capillipes Laxmannia grandiflora subsp. grandiflora Laxmannia ramosa subsp. ramosa Laxmannia sessiliflora subsp. australis Laxmannia squarrosa Lomandra caespitosa (Tufted Mat Rush) Lomandra hermaphrodita Lomandra micrantha subsp. micrantha	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37. 38. Asparagac 39. 40. 41. 42. 43. 44. 45. 46. 47. 48.	1051 1049 6226 6229 6233 11074 19041 6280 eae 11299 8788 1287 11815 11911 11464 1309 1223 1228 14542 1234	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea Trachymene pilosa (Native Parsnip) Chamaescilla corymbosa var. corymbosa Chamaescilla versicolor Dichopogon capillipes Laxmannia grandiflora subsp. grandiflora Laxmannia ramosa subsp. ramosa Laxmannia sessiliflora subsp. australis Laxmannia squarrosa Lomandra caespitosa (Tufted Mat Rush) Lomandra hermaphrodita Lomandra nigricans	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37. 38. Asparagac 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50.	1051 1049 6226 6229 6233 11074 19041 6280 eae 11299 8788 1287 11815 11911 11464 1309 1223 1228 14542 1234 1236	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea Trachymene pilosa (Native Parsnip) Chamaescilla corymbosa var. corymbosa Chamaescilla versicolor Dichopogon capillipes Laxmannia grandiflora subsp. grandiflora Laxmannia ramosa subsp. ramosa Laxmannia sessiliflora subsp. australis Laxmannia squarrosa Lomandra caespitosa (Tufted Mat Rush) Lomandra hermaphrodita Lomandra nigricans Lomandra odora (Tiered Matrush)	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37. 38. Asparagac 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51.	1051 1049 6226 6229 6233 11074 19041 6280 eae 11299 8788 1287 11815 11911 11464 1309 1223 1228 14542 1234 1236 1239	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea Trachymene pilosa (Native Parsnip) Chamaescilla corymbosa var. corymbosa Chamaescilla versicolor Dichopogon capillipes Laxmannia grandiflora subsp. grandiflora Laxmannia ramosa subsp. ramosa Laxmannia sessiliflora subsp. australis Laxmannia squarrosa Lomandra caespitosa (Tufted Mat Rush) Lomandra hermaphrodita Lomandra nigricans Lomandra odora (Tiered Matrush) Lomandra preissii	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37. 38. Asparagac 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51.	1051 1049 6226 6229 6233 11074 19041 6280 eae 11299 8788 1287 11815 11911 11464 1309 1223 1228 14542 1234 1236 1239 1243	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea Trachymene pilosa (Native Parsnip) Chamaescilla corymbosa var. corymbosa Chamaescilla versicolor Dichopogon capillipes Laxmannia grandiflora subsp. grandiflora Laxmannia ramosa subsp. ramosa Laxmannia sessiliflora subsp. australis Laxmannia squarrosa Lomandra caespitosa (Tufted Mat Rush) Lomandra hermaphrodita Lomandra nigricans Lomandra odora (Tiered Matrush) Lomandra preissii Lomandra sericea (Silky Mat Rush)	Y		
31. 32. Araliaceae 33. 34. 35. 36. 37. 38. Asparagac 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51.	1051 1049 6226 6229 6233 11074 19041 6280 eae 11299 8788 1287 11815 11911 11464 1309 1223 1228 14542 1234 1236 1239 1243 1243	Lemna disperma (Duckweed) Zantedeschia aethiopica (Arum Lily) Hydrocotyle callicarpa (Small Pennywort) Hydrocotyle diantha Hydrocotyle lemnoides (Aquatic Pennywort) Hydrocotyle striata Trachymene coerulea subsp. coerulea Trachymene pilosa (Native Parsnip) Chamaescilla corymbosa var. corymbosa Chamaescilla versicolor Dichopogon capillipes Laxmannia grandiflora subsp. grandiflora Laxmannia ramosa subsp. ramosa Laxmannia sessiliflora subsp. australis Laxmannia squarrosa Lomandra caespitosa (Tufted Mat Rush) Lomandra hermaphrodita Lomandra nigricans Lomandra odora (Tiered Matrush) Lomandra preissii	Y		







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
55.	1317	Thysanotus anceps		P3	Alou
56.		Thysanotus arbuscula			
57.	1319	Thysanotus arenarius			
58.	1330	Thysanotus fastigiatus			
59.	1338	Thysanotus manglesianus (Fringed Lily)			
60.	1339	Thysanotus multiflorus (Many-flowered Fringe Lily)			
61.	1343	Thysanotus patersonii			
62.	1351	Thysanotus sparteus			
63.	1354	Thysanotus tenellus			
64.	1357	Thysanotus thyrsoideus			
65.	1358	Thysanotus triandrus			
Asphodelace					
66.	1364	Asphodelus fistulosus (Onion Weed)	Υ		
Asteraceae	7000	Anstallana ratardata (Orana IMarad)	Y		
67.		Arctotheca calendula (Cape Weed)	Υ		
68.		Brachyscome bellidioides			
69.		Brachyscome glandulosa			
70.		Brachyscome iberidifolia			
71.		Brachyscome pusilla			
72.		Chondrilla juncea (Skeleton Weed)	Y		
73.		Circium intybus (Chicory)	Y		
74.		Cirsium vulgare (Spear Thistle)	Y		
75.		Conyza bonariensis (Flaxleaf Fleabane)	Y		
76.		Conyza sumatrensis	Y		
77.		Cotula australis (Common Cotula)			
78.		Cotula coronopifolia (Waterbuttons)	Υ		
79.		Cotula cotuloides (Smooth Cotula)			
80.		Cotula turbinata (Funnel Weed)	Υ		
81.		Craspedia variabilis			
82.		Crepis foetida (Foetid Hawksbeard)	Υ		
83.		Dittrichia graveolens (Stinkwort)	Υ		
84.		Eclipta prostrata	Y		
85.		Euchiton sphaericus			
86.		Gnephosis tenuissima			
87.	8007	Hedypnois rhagadioloides (Cretan Weed)	Υ		
88.	8027	Helichrysum macranthum			
89.	12741	Hyalosperma cotula			
90.	9352	Hypochaeris radicata (Flat Weed)	Υ		
91.	8095	Lactuca saligna (Wild Lettuce)	Υ		
92.	18585	Lagenophora huegelii			
93.	8105	Millotia myosotidifolia			
94.	8106	Additional to the state of the			
95.	0100	Millotia tenuifolia (Soft Millotia)			
96.		Millotia tenuirolia (Soft Millotia) Millotia tenuifolia var. tenuifolia (Soft Millotia)			
50.	14344	, ,	Y		
97.	14344 29418	Millotia tenuifolia var. tenuifolia (Soft Millotia)	Y		
	14344 29418 8143	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus	Y		
97.	14344 29418 8143 8175	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy)	Y		
97. 98.	14344 29418 8143 8175 8177	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis)	Y		
97. 98. 99.	14344 29418 8143 8175 8177 8182	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podolepis lessonii	Y		
97. 98. 99. 100.	14344 29418 8143 8175 8177 8182 8183	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podolepis lessonii Podotheca angustifolia (Sticky Longheads)	Y		
97. 98. 99. 100.	14344 29418 8143 8175 8177 8182 8183 13255	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podolepis lessonii Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca)	Y		
97. 98. 99. 100. 101.	14344 29418 8143 8175 8177 8182 8183 13255 13300	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podolepis lessonii Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata	Y		
97. 98. 99. 100. 101. 102.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podolepis lessonii Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina	Y		
97. 98. 99. 100. 101. 102. 103.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podolepis lessonii Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina Rhodanthe corymbosa	Y	P1	
97. 98. 99. 100. 101. 102. 103. 104. 105.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035 13309 8205	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina Rhodanthe spicata	Y	P1	
97. 98. 99. 100. 101. 102. 103. 104. 105. 106.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035 13309 8205 20663	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina Rhodanthe spicata Senecio gilbertii	Y	P1	
97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035 13309 8205 20663 20161	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina Rhodanthe corymbosa Rhodanthe spicata Senecio gilbertii Senecio multicaulis subsp. multicaulis	Y	P1	
97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035 13309 8205 20663 20161 8220	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina Rhodanthe corymbosa Rhodanthe spicata Senecio gilbertii Senecio multicaulis subsp. multicaulis Senecio pinnatifolius		P1	
97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035 13309 8205 20663 20161 8220 8224	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina Rhodanthe corymbosa Rhodanthe spicata Senecio gilbertii Senecio multicaulis subsp. multicaulis Senecio vulgaris (Common Groundsel)		P1	
97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035 13309 8205 20663 20161 8220 8224 8225	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina Rhodanthe corymbosa Rhodanthe spicata Senecio gilbertii Senecio multicaulis subsp. multicaulis Senecio vulgaris (Common Groundsel) Siloxerus filifolius		P1	
97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035 20663 20161 8220 8224 8225 8228	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina Rhodanthe corymbosa Rhodanthe spicata Senecio gilbertii Senecio multicaulis subsp. multicaulis Senecio pinnatifolius Senecio vulgaris (Common Groundsel) Siloxerus filifolius Siloxerus humifusus (Procumbent Siloxerus)	Y	P1	
97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035 20663 20161 8220 8224 8225 8228 8231	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina Rhodanthe corymbosa Rhodanthe spicata Senecio gilbertii Senecio multicaulis subsp. multicaulis Senecio pinnatifolius Senecio vulgaris (Common Groundsel) Siloxerus filifolius Siloxerus humifusus (Procumbent Siloxerus) Solidago canadensis (Goldenrod)	Y	P1	
97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035 20663 20161 8220 8224 8225 8228 8231 25902	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina Rhodanthe corymbosa Rhodanthe spicata Senecio gilbertii Senecio multicaulis subsp. multicaulis Senecio pinnatifolius Senecio vulgaris (Common Groundsel) Siloxerus filifolius Siloxerus humifusus (Procumbent Siloxerus) Solidago canadensis (Goldenrod) Sonchus oleraceus (Common Sowthistle)	Y Y Y	P1	
97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 111. 112. 113. 114.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035 20663 20161 8220 8224 8225 8228 8231 25902 8243	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina Rhodanthe corymbosa Rhodanthe spicata Senecio gilbertii Senecio multicaulis subsp. multicaulis Senecio pinnatifolius Senecio vulgaris (Common Groundsel) Siloxerus filifolius Siloxerus humifusus (Procumbent Siloxerus) Solidago canadensis (Goldenrod) Sonchus oleraceus (Common Sowthistle) Symphyotrichum squamatum (Bushy Starwort) Tagetes minuta (Stinking Roger)	Y	P1	
97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 111. 112. 113. 114. 115.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035 20663 20161 8220 8224 8225 8228 8231 25902 8243 8243	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina Rhodanthe corymbosa Rhodanthe spicata Senecio gilbertii Senecio multicaulis subsp. multicaulis Senecio pinnatifolius Senecio vulgaris (Common Groundsel) Siloxerus filifolius Siloxerus humifusus (Procumbent Siloxerus) Solidago canadensis (Goldenrod) Sonchus oleraceus (Common Sowthistle) Symphyotrichum squamatum (Bushy Starwort) Tagetes minuta (Stinking Roger) Taraxacum officinale (Dandelion)	Y	P1	
97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 111. 112. 113. 114. 115. 116.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035 20663 20161 8220 8224 8225 8228 8231 25902 8243 8243 8245 8250	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina Rhodanthe corymbosa Rhodanthe spicata Senecio gilbertii Senecio multicaulis subsp. multicaulis Senecio pinnatifolius Senecio vulgaris (Common Groundsel) Siloxerus filifolius Siloxerus humifusus (Procumbent Siloxerus) Solidago canadensis (Goldenrod) Sonchus oleraceus (Common Sowthistle) Symphyotrichum squamatum (Bushy Starwort) Tagetes minuta (Stinking Roger) Taraxacum officinale (Dandelion) Tragopogon porrifolius (Salsify)	Y	P1	
97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 111. 112. 113. 114. 115. 116. 117. 118.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035 20663 20161 8220 8224 8225 8228 8231 25902 8243 8245 8250 8250	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina Rhodanthe corymbosa Rhodanthe spicata Senecio gilbertii Senecio multicaulis subsp. multicaulis Senecio pinnatifolius Senecio vulgaris (Common Groundsel) Siloxerus filifolius Siloxerus filifolius Sonchus oleraceus (Common Sowthistle) Symphyotrichum squamatum (Bushy Starwort) Tagetes minuta (Stinking Roger) Taraxacum officinale (Dandelion) Tragopogon porrifolius (Salsify) Trichocline spathulata (Native Gerbera)	Y Y Y Y Y Y Y Y	P1	
97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 111. 112. 113. 114. 115. 116. 117. 118.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035 20663 20161 8220 8224 8225 8228 8231 25902 8243 8245 8250 8251 38388	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina Rhodanthe corymbosa Rhodanthe spicata Senecio gilbertii Senecio multicaulis subsp. multicaulis Senecio pinnatifolius Senecio vulgaris (Common Groundsel) Siloxerus filifolius Siloxerus humifusus (Procumbent Siloxerus) Solidago canadensis (Goldenrod) Sonchus oleraceus (Common Sowthistle) Symphyotrichum squamatum (Bushy Starwort) Tagetes minuta (Stinking Roger) Taraxacum officinale (Dandelion) Tragopogon porrifolius (Salsify) Trichocline spathulata (Native Gerbera) Ursinia anthemoides subsp. anthemoides	Y Y Y Y Y Y Y Y	P1	
97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 111. 112. 113. 114. 115. 116. 117. 118.	14344 29418 8143 8175 8177 8182 8183 13255 13300 15035 20663 20161 8220 8224 8225 8228 8231 25902 8243 8245 8250 8251 38388 8257	Millotia tenuifolia var. tenuifolia (Soft Millotia) Monoculus monstrosus Olearia paucidentata (Autumn Scrub Daisy) Podolepis gracilis (Slender Podolepis) Podotheca angustifolia (Sticky Longheads) Podotheca chrysantha (Yellow Podotheca) Pterochaeta paniculata Rhodanthe citrina Rhodanthe corymbosa Rhodanthe spicata Senecio gilbertii Senecio multicaulis subsp. multicaulis Senecio pinnatifolius Senecio vulgaris (Common Groundsel) Siloxerus filifolius Siloxerus filifolius Sonchus oleraceus (Common Sowthistle) Symphyotrichum squamatum (Bushy Starwort) Tagetes minuta (Stinking Roger) Taraxacum officinale (Dandelion) Tragopogon porrifolius (Salsify) Trichocline spathulata (Native Gerbera)	Y Y Y Y Y Y Y Y	P1	







		Species Name	Naturalised C	Conservation Code	Area
122.		Waitzia suaveolens (Fragrant Waitzia)			
123. 124.		Waitzia suaveolens var. suaveolens Xanthium spinosum (Bathurst Burr)	Υ		
		Xantillam Spiriosam (Batharst Burr)	'		
Boraginacea					
125.		Echium plantagineum (Paterson's Curse)	Y		
126.		Halgania corymbosa		P3	
127.	29/16	Halgania sp. Wongan Hills (K.F. Kenneally 2393)			
Brassicaceae	•				
128.	2995	Brassica napus	Υ		
129.		Diplotaxis muralis (Wall Rocket)	Υ		
130.		Heliophila pusilla	Υ		
131.		Lepidium didymum	Y		
132.		Raphanus raphanistrum (Wild Radish)	Y		
133.		Raphanus sativus (Radish)	Y		
134.	3066	Rorippa nasturtium-aquaticum (Watercress)	Y		
Bryaceae					
135.	32376	Gemmabryum dichotomum			
136.	32380	Gemmabryum pachythecum			
137.		Ptychostomum angustifolium			
138.		Rosulabryum albolimbatum			
139.		Rosulabryum billarderi			
140.	32432	Schizymenium bryoides			
Byblidaceae					
141.	3178	Byblis gigantea (Rainbow Plant)		P3	
`amnanılaa					
Sampanulace		Jactoma hungaratarifarmia (Maadhridga Raigan)			
142.		Isotoma hypocrateriformis (Woodbridge Poison) Isotoma pusilla (Small Isotome)			
143.		Lobelia heterophylla (Wing-seeded Lobelia)			
145.		Lobelia rhombifolia (Tufted Lobelia)			
146.		Lobelia rhytidosperma (Wrinked-seeded Lobelia)			
147.		Monopsis debilis	Υ		
148.		Wahlenbergia capensis (Cape Bluebell)	Y		
149.		Wahlenbergia preissii			
		• ,			
Cannaceae	40400	0			
150. 151.		Canna x generalis Canna x orchiodes	Y		
		Carina x orcinodes	Ť		
Caprifoliacea	e				
152.	35322	Centranthus ruber subsp. ruber	Υ		
Carvophyllac	eae				
153.	19825	Petrorhagia dubia	Υ		
154.		Polycarpon tetraphyllum (Fourleaf Allseed)	Y		
155.		Silene gallica (French Catchfly)	Υ		
156.	15972	Silene gallica var. gallica	Υ		
Casuarinacea					
asuarmacea 157.		Allocasuarina fraseriana (Sheoak)			
157.		Allocasuarina humilis (Dwarf Sheoak)			
159.		Casuarina obesa (Swamp Sheoak)			
133.	1742	Casaanna obesa (Gwamp Griedak)			
Celastraceae					
160.		Stackhousia monogyna			
161.	4737	Tripterococcus brunonis (Winged Stackhousia)			
Centrolepida	ceae				
162.		Aphelia brizula			
163.		Aphelia cyperoides			
164.		Centrolepis aristata (Pointed Centrolepis)			
165.		Centrolepis drummondiana			
166.		Centrolepis glabra (Smooth Centrolepis)			
167.	1131	Centrolepis inconspicua			
168.	1132	Centrolepis mutica			
`henonodica	-020				
henopodiad 169.		Atriplex hypoleuca			
170.		Atriplex rypoleuca Atriplex prostrata (Hastate Orache)	Υ		
170.		Dysphania ambrosioides (Mexican Tea)	Y		
171.		Dysphania glomulifera subsp. glomulifera	Ť		
114.		Sarcocornia quinqueflora (Beaded Samphire)			
173.	2502				

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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que Area
174.	2630	Suaeda australis (Seablite)			Alea
175.		Tecticornia halocnemoides (Shrubby Samphire)			
176.		Tecticornia halocnemoides subsp. halocnemoides			
170.					
		Tecticornia indica subsp. bidens			
178.	31/18	Tecticornia lepidosperma			
Colchicacea	ie				
179.	1382	Baeometra uniflora	Υ		
180.		Burchardia congesta	·		
181.		Burchardia multiflora (Dwarf Burchardia)			
182.		Wurmbea dioica subsp. alba			
102.	12072	wumbea dioica subsp. alba			
Commelinac	eae				
183.	1162	Cartonema philydroides			
Convolvulac					
184.	6620	Ipomoea cairica (Coast Morning Glory)	Υ		
185.	6630	Ipomoea indica (Morning Glory)	Y		
Crassulacea					
		Canada adareta van adaminata			
186.		Crassula colorata var. acuminata			
187.		Crassula colorata var. colorata			
188.		Crassula decumbens (Rufous Stonecrop)			
189.		Crassula decumbens var. decumbens			
190.	3139	Crassula exserta			
191.	15706	Crassula natans var. minus	Υ		
Cuprocess	20				
Cupressacea		O-Wising a supplied to (Durant Orange)			
192.	36520	Callitris acuminata (Dwarf Cypress)			
Cyperaceae					
193.	740	Baumea arthrophylla			
194.		Baumea articulata (Jointed Rush)			
195.		Baumea preissii subsp. preissii			
196.		Baumea rubiginosa			
197.		Baumea vaginalis (Sheath Twigrush)			
198.	749	Bolboschoenus caldwellii (Marsh Club-rush)			
199.	14535	Bolboschoenus medianus		P1	
200.	753	Carex appressa (Tall Sedge)			
201.	755	Carex fascicularis (Tassel Sedge)			
202.	756	Carex inversa (Knob Sedge)			
203.	760	Caustis dioica			
204.		Chorizandra enodis (Black Bristlerush)			
205.		Cyathochaeta avenacea			
206.		Cyathochaeta clandestina			
207.		Cyathochaeta equitans			
208.		Cyathochaeta teretifolia		P3	
209.		Cyperus brevifolius (Kyllinga Weed)	Y		
210.	792	Cyperus eragrostis (Umbrella Sedge)	Υ		
211.	806	Cyperus polystachyos (Bunchy Sedge)	Υ		
212.	815	Cyperus tenellus (Tiny Flatsedge)	Υ		
213.	816	Cyperus tenuiflorus (Scaly Sedge)	Υ		
214.		Ficinia nodosa (Knotted Club Rush)			
215.		Fimbristylis velata			
		•			
216		Gahnia decomposita			
216. 217	902	Gahnia decomposita Gahnia trifida (Coast Sawsadoa)			
217.	902 907	Gahnia trifida (Coast Saw-sedge)			
217. 218.	902 907 914	Gahnia trifida (Coast Saw-sedge) Isolepis hookeriana (Bristle Club Rush)			
217. 218. 219.	902 907 914 917	Gahnia trifida (Coast Saw-sedge) Isolepis hookeriana (Bristle Club Rush) Isolepis marginata (Coarse Club-rush)	Y		
217. 218. 219. 220.	902 907 914 917 10831	Gahnia trifida (Coast Saw-sedge) Isolepis hookeriana (Bristle Club Rush) Isolepis marginata (Coarse Club-rush) Isolepis prolifera (Budding Club-rush)	Y Y		
217. 218. 219.	902 907 914 917 10831	Gahnia trifida (Coast Saw-sedge) Isolepis hookeriana (Bristle Club Rush) Isolepis marginata (Coarse Club-rush)			
217. 218. 219. 220.	902 907 914 917 10831 924	Gahnia trifida (Coast Saw-sedge) Isolepis hookeriana (Bristle Club Rush) Isolepis marginata (Coarse Club-rush) Isolepis prolifera (Budding Club-rush)			
217. 218. 219. 220. 221.	902 907 914 917 10831 924 925	Gahnia trifida (Coast Saw-sedge) Isolepis hookeriana (Bristle Club Rush) Isolepis marginata (Coarse Club-rush) Isolepis prolifera (Budding Club-rush) Isolepis stellata (Star Club-rush)			
217. 218. 219. 220. 221. 222.	902 907 914 917 10831 924 925	Gahnia trifida (Coast Saw-sedge) Isolepis hookeriana (Bristle Club Rush) Isolepis marginata (Coarse Club-rush) Isolepis prolifera (Budding Club-rush) Isolepis stellata (Star Club-rush) Lepidosperma angustatum			
217. 218. 219. 220. 221. 222. 223.	902 907 914 917 10831 924 925 930	Gahnia trifida (Coast Saw-sedge) Isolepis hookeriana (Bristle Club Rush) Isolepis marginata (Coarse Club-rush) Isolepis prolifera (Budding Club-rush) Isolepis stellata (Star Club-rush) Lepidosperma angustatum Lepidosperma costale Lepidosperma drummondii			
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217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229.	902 907 914 917 10831 924 925 930 931 936 937 940 944	Gahnia trifida (Coast Saw-sedge) Isolepis hookeriana (Bristle Club Rush) Isolepis marginata (Coarse Club-rush) Isolepis prolifera (Budding Club-rush) Isolepis stellata (Star Club-rush) Lepidosperma angustatum Lepidosperma costale Lepidosperma drummondii Lepidosperma leptostachyum Lepidosperma longitudinale (Pithy Sword-sedge) Lepidosperma pubisquameum Lepidosperma scabrum Lepidosperma squamatum			
217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228.	902 907 914 917 10831 924 925 930 931 936 937 940 944	Gahnia trifida (Coast Saw-sedge) Isolepis hookeriana (Bristle Club Rush) Isolepis marginata (Coarse Club-rush) Isolepis prolifera (Budding Club-rush) Isolepis stellata (Star Club-rush) Lepidosperma angustatum Lepidosperma costale Lepidosperma drummondii Lepidosperma leptostachyum Lepidosperma longitudinale (Pithy Sword-sedge) Lepidosperma pubisquameum Lepidosperma scabrum			
217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229.	902 907 914 917 10831 924 925 930 931 936 937 940 944 945	Gahnia trifida (Coast Saw-sedge) Isolepis hookeriana (Bristle Club Rush) Isolepis marginata (Coarse Club-rush) Isolepis prolifera (Budding Club-rush) Isolepis stellata (Star Club-rush) Lepidosperma angustatum Lepidosperma costale Lepidosperma drummondii Lepidosperma leptostachyum Lepidosperma longitudinale (Pithy Sword-sedge) Lepidosperma pubisquameum Lepidosperma scabrum Lepidosperma squamatum			
217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230.	902 907 914 917 10831 924 925 930 931 936 937 940 944 945 955	Gahnia trifida (Coast Saw-sedge) Isolepis hookeriana (Bristle Club Rush) Isolepis marginata (Coarse Club-rush) Isolepis prolifera (Budding Club-rush) Isolepis stellata (Star Club-rush) Lepidosperma angustatum Lepidosperma costale Lepidosperma drummondii Lepidosperma leptostachyum Lepidosperma longitudinale (Pithy Sword-sedge) Lepidosperma scabrum Lepidosperma squamatum Mesomelaena pseudostygia			
217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231.	902 907 914 917 10831 924 925 930 931 936 937 940 944 945 955 957	Gahnia trifida (Coast Saw-sedge) Isolepis hookeriana (Bristle Club Rush) Isolepis marginata (Coarse Club-rush) Isolepis prolifera (Budding Club-rush) Isolepis stellata (Star Club-rush) Lepidosperma angustatum Lepidosperma costale Lepidosperma drummondii Lepidosperma leptostachyum Lepidosperma longitudinale (Pithy Sword-sedge) Lepidosperma scabrum Lepidosperma squamatum Mesomelaena pseudostygia Mesomelaena tetragona (Semaphore Sedge)			







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
235.	975	Schoenus bifidus			702
236.	978	Schoenus brevisetis			
237.		Schoenus caespititius			
238.		Schoenus curvifolius			
239.		Schoenus efoliatus			
240. 241.		Schoenus elegans Schoenus grammatophyllus			
242.		Schoenus griffinianus		P3	
243.		Schoenus laevigatus		13	
244.		Schoenus latitans			
245.	1002	Schoenus nanus (Tiny Bog Rush)			
246.	1007	Schoenus pedicellatus			
247.	1008	Schoenus pennisetis		P1	
248.	1013	Schoenus sculptus (Gimlet Bog-rush)			
249.	1016	Schoenus subbarbatus (Bearded Bog-rush)			
250.		Schoenus subbulbosus			
251.		Schoenus subfascicularis			
252.		Schoenus subflavus (Yellow Bog-rush)			
253.		Schoonus unispiculatus			
254. 255.		Schoenus unispiculatus Tetraria capillaris (Hair Sedne)			
255. 256.		Tetraria capillaris (Hair Sedge) Tetraria octandra			
257.		Tricostularia neesii			
Dasypogona		Outrates in community			
258.		Calectasia narragara			
259. 260.		Dasypogon bromeliifolius (Pineapple Bush) Dasypogon obliquifolius			
261.		Kingia australis (Kingia)			
		ranga aasuans (ranga)			
Dennstaedtia					
262.	57	Pteridium esculentum (Bracken)			
Dicranaceae					
263.	32460	Campylopus acuminatus var. kirkii			
264.	32461	Campylopus bicolor var. bicolor			
265.	32338	Campylopus introflexus	Υ		
Dilleniaceae					
266.	5109	Hibbertia amplexicaulis			
267.	5112	Hibbertia aurea			
268.	5114	Hibbertia commutata			
269.	20051	Hibbertia diamesogenos			
270.	19778	Hibbertia glomerata subsp. darlingensis			
271.		Hibbertia huegelii			
272.		Hibbertia hypericoides (Yellow Buttercups)			
273.		Hibbertia nymphaea			
274.		Hibbertia porfeliata			
275. 276.		Hibbertia perfoliata Hibbertia racemosa (Stalked Guinea Flower)			
276. 277.		Hibbertia serrata (Serrate Leaved Guinea Flower)			
277.		Hibbertia stellaris (Orange Stars)			
279.		Hibbertia subvaginata			
		-			
Dioscoreacea		Diocearea hastifalia (Marrina)			
280.	1509	Dioscorea hastifolia (Warrine)			
Ditrichaceae					
281.	32347	Ditrichum difficile			
Droseraceae					
282.	13204	Drosera callistos			
283.	3095	Drosera erythrorhiza (Red Ink Sundew)			
284.	13217	Drosera erythrorhiza subsp. erythrorhiza			
285.	15453	Drosera gigantea subsp. gigantea			
286.		Drosera glanduligera (Pimpernel Sundew)			
287.		Drosera heterophylla (Swamp Rainbow)			
288.		Drosera macrantha subsp. macrantha			
289.		Drosera menziesii subsp. menziesii			
290.		Drosera menziesii subsp. penicillaris			
291.		Drosera nitidula (Shining Sundew)			
292.		Drosera paleacea (Jwarf Sundew)			
293. 294.		Drosera paleacea subsp. paleacea Drosera pallida (Pale Rainbow)			
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2976	295.	3119	Drosera parvula (Small Sundew)			
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2911 Disease acustina' Flammed Sundamin						
1311						
EleoCat paces						
Section						
93.2 45.2 Partichea gatichotes	301.	3133	Drosera zonaria (Painteo Sundew)			
1915	Elaeocarpa	ceae				
Section Control Cont						
Elatinaceae			, , ,			
Site Site Select grantecistes (Visteraners)	304.	4537	Tetratneca nuda			
300.			Elatine gratioloides (Waterwort)			
300.	Ericosoo					
337.		6311	Andersonia hoterophylla			
1417 Andreanna lethmannama subap, Inhrannama 1417 Andreannama						
300. 8322 Astrotoma cillatum (Candin Candemy) 310. 6327 Astrotoma mescocapity (Sient Berry) 311. 6330 Astrotoma mescocapity (Sient Berry) 312. 6334 Astrotoma mescocapity (Sient Berry) 313. 6334 Astrotoma stornambrana (Red Swang Cranborny) 314. 6339 Astrotoma stornambrana (Red Swang Cranborny) 315. 6347 Connoteghilum pendulum (Pend Flower) 316. 6344 Connoteghilum pendulum pendulum (Pend Flower) 317. 6354 Connoteghilum pendulum pendulum (Pend Flower) 317. 6354 Connoteghilum pendulum pendulum (Pend Flower) 317. 6356 Connoteghilum pendulum pendulum (Pend Flower) 317. 6356 Connoteghilum pendulum (Pend Flower) 317. 6357 Connoteghilum pendulum (Pend Flower) 318. 6350 Connoteghilum pendulum (Pend Flower) 318. 6350 Connoteghilum pendulum (Pend Flower) 319. 6357 Connoteghilum pendulum (Pend Flower) 325. 6452 Connoteghilum pendulum (Pend Flower) 325. 6452 Connoteghilum (Pend Flower) 325. 6452 Connoteghilum (Pend Flower) 325. 6454 Connoteghilum (Pend Flower) 325. 6455 Connoteghilum 325. 6456 Connoteghilum (Pend Flower) 325. 6457 Connoteghilum (Pend Flower) 325. 6458 Connoteghilum (Pend Flower) 325. 6459 Connoteghilum (Pend Flower) 325. 64						
310.						
311.			•			
313. 8337 Astroloma stormathman (Red Swamp Cranberry)						
314	312.					
315. 6347 Concespharm minus (Pink-Ripode Pisant Rower) 316. 6348 Concespharm production (Pisant Flower) 317. 6349 Concestpharm production (Pisant Flower) 318. 6360 Laucopogon australis (Spiked Beard-Freath) 319. 6371 Laucopogon productions 320. 6387 Laucopogon productions 321. 6422 Laucopogon productions (Coast Beard-Freath) 322. 6437 Laucopogon profunctions (Coast Beard-Freath) 323. 6434 Laucopogon profunctions (Coast Beard-Freath) 325. 6434 Laucopogon profunctions (Coast Beard-Freath) 326. 2831 Laucopogon profunctions (Coast Beard-Freath) 327. 19579 Laucopogon sp. Creat Southern (E.S. Cowan A. Sell) 328. 6440 Laucopogon sp. Creat Southern (E.S. Cowan A. Sell) 339. 4060 Laucopogon spurmous subsp. squarrosus 330. 9476 Lysiniuma perimperialum 331. 9478 Lysiniuma perimperialum 332. 4076 Sypholia termition (Court Promot) 333. 4086 Lysiniuma ciliatum (Court Promot) 334. 29940 Euphorbia maculatum (Court Promot) 335. 4688 Euphorbia maculatum (Court Promot) <t< td=""><td>313.</td><td>6337</td><td>Astroloma stomarrhena (Red Swamp Cranberry)</td><td></td><td></td><td></td></t<>	313.	6337	Astroloma stomarrhena (Red Swamp Cranberry)			
316. GS48 Concestophium proteins	314.	6339	Astroloma xerophyllum			
317.						
318. 6380 Leucopopon autoralia (Spiked Beard-heath) 319. 6374 Leucopopon conscipiliotics 321. 6402 Leucopopon plauticitatia 321. 6402 Leucopopon plauticitatia 322. 6404 Leucopopon pravilloria (Coast Beard-heath) 323. 6404 Leucopopon pravilloria (Coast Beard-heath) 325. 6404 Leucopopon pravilloria (Beard-heath) 326. 6404 Leucopopon pubchicita (Beard-heath) 327. 19379 Leucopopon pubchicita (Beard-heath) 328. 6404 Leucopopon racemulosias 329. 40930 Leucopopon par, Murricoth (M. Histor) 10377) 328. 6404 Leucopopon sp. Murricoth (M. Histor) 10377) 329. 6404 Leucopopon sp. Autroch (M. Histor) 10377) 330. 6465 Lyniama acillatum (Curry Flower) 331. 34736 Lyniama partapestalum 332. 6476 Styphelia trautifica (Common Pinheath) Euphorbiaceae 333. 4626 Euphorbia drammondii (Caustic Weed) 334. 20940 Euphorbia maculata 4628 Moncass grantifica (Clamond of the Desert) 337. 19586 Moncass grantifica (Clamond of the Desert) 338. 4686 Moncass grantifica (Clamond of the Desert) 340. 4713 Stachystemon aulitaris (Castri Orl Plant) 471 Stachystemon aulitaris (Castri Orl Plant) 471 Stachystemon aulitaris (Castri Orl Plant) 371 Stachystemon aulitaris (Castri Orl Plant) 372 Acacia anomala (Grass Wattle) 373 Acacia anomala (Grass Wattle) 374 Acacia hungelli 375 Acacia anomala (Grass Wattle) 375 Acacia anomala (Grass Wattle) 376 Acacia polariata 377 Acacia hungelli 378 Acacia pricrassata 379 Acacia morteles 380. 3614 Acacia polariata 381 Acacia punctuclaria var. gestioriia 382 Acacia incrassata 383 Acacia morteles 384 Acacia punctuclaria var. gestioriia 385 Acacia pricrassata 386 Acacia punctuclaria var. gestioriia 387 Acacia punctuclaria var. gestioriia 389 Acacia punctuclaria var. gestioriia 380 Acacia punctuclaria var. gestioriia 381 Acacia punctuclaria var. gestioriia 383 Acacia punctuclaria var. gestioriia 385 Acacia punctuclaria var. gestioriia 386 Acacia punctuclaria var. gestioriia 387 Acacia punctuclaria var. gestioriia 389 Acacia punctuclaria var. gestioriia 380 Acacia punctuclaria var. gestioriia 381 Acacia punctuclaria var. ges						
319. 6374 Leucopogon plaucifolius						
320. 6497 Leucopogon placialitus 321. 6402 Leucopogon plarvillous (Coast Beard heath) 322. 6417 Leucopogon plarvillous (Coast Beard heath) 323. 6438 Leucopogon plarvillous (Beard-heath) 325. 6440 Leucopogon plarvillous (Beard-heath) 326. 6439 Leucopogon plarvillous (Beard-heath) 327. 19579 Leucopogon squarrosus (Beard-heath) 328. 6442 Leucopogon squarrosus subsp. squarrosus 329. 40600 Leucopogon squarrosus subsp. squarrosus 330. 6456 Lyshenna ciliatur (Curry Flower) 331. 331. 34786 Lyshenna ciliatur (Curry Flower) 332. 6476 Styphelia tenutifora (Cormon Pirheath) Euphorbiaceae Euphorbiaceae Supplementa of the Styphelia tenutifora (Common Pirheath) Euphorbiaceae 4686 Monotaxis grandiflora (Geratitino Camation Weed) 334. 2964 Euphorbia macultata Y 335. 4686 Monotaxis grandiflora (Geratitino Camation Weed) 337. 19685 Monotaxis grandiflora (Geratitino Camation Weed) 338. 4666 Monotaxis grandiflora (Geratitino Camation Weed) 340. 4175 Stechystemon collisins (Londy Stechystemon) 341. 4716 Stechystemon evermicularis Fabaceae 342. 3219 Acacia anomala (Grass Wattle) 343. 3231 Acacia anomala (Grass Wattle) 344. 3231 Acacia anomala (Grass Wattle) 345. 3294 Acacia anomala (Grass Wattle) 346. 3332 Acacia anomala (Grass Wattle) 347. 3381 Acacia entricliai 348. 3374 Acacia housepli 349. 3382 Acacia anomala (Kragarco Thorn) 341. 4716 Stechystemon evermicularis Fabaceae 342. 3219 Acacia anomala (Grass Wattle) 343. 3331 Acacia entricliai 344. 3331 Acacia entricliai 345. 3468 Acacia papadoxa (Kragarco Thorn) 347. 3484 Acacia purchiella var, pulchelia 3485. 3384 Acacia paradoxa (Kragarco Thorn) 349. 3382 Acacia paradoxa (Kragarco Thorn) 341. 4718 Stechystemon Paparoxa (Kragarco Thorn) 342. 3433 Acacia paradoxa (Kragarco Thorn) 3434. 3447 Acacia purchelia var, pulchelia 3456. 3560. 3604 Acacia paradoxa (Kragarco Thorn) 357. 3627 Acacia saginar (Cragare Varierie)						
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426. 4065 Lupinus angustifolius (Narrowleaf Lupin) Y 427. 4066 Lupinus cosentinii Y							
427. 4066 Lupinus cosentinii Y							
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que Area
428.	4067	Lupinus luteus (Yellow Lupin)	Υ		
429.	4070	Macroptilium atropurpureum (Purple Bean)	Υ		
430.	4072	Medicago arabica (Spotted Medic)	Υ		
431.	4079	Medicago polymorpha (Burr Medic)	Υ		
432.	4100	Mirbelia spinosa			
433.	3618	Paraserianthes lophantha (Albizia)			
434.	17114	Paraserianthes lophantha subsp. lophantha			
435.	4172	Pultenaea ericifolia			
436.	4205	Sphaerolobium linophyllum			
437.		Sphaerolobium macranthum			
438.		Sphaerolobium medium			
439.		Sphaerolobium vimineum (Leafless Globe Pea)			
440.		Templetonia drummondii		P4	
			V	P4	
441.		Trifolium arvense (Hare's Foot Clover)	Y		
442.		Trifolium campestre (Hop Clover)	Y		
443.		Trifolium campestre var. campestre (Hop Clover)	Y		
444.	4295	Trifolium dubium (Suckling Clover)	Υ		
445.	4297	Trifolium glomeratum (Cluster Clover)	Υ		
446.	4303	Trifolium micranthum (Slender Suckling Clover)	Υ		
447.	17115	Trifolium repens var. repens	Υ		
448.	34772	Vachellia karroo	Υ		
449.	4319	Vicia benghalensis (Purple Vetch)	Υ		
450.		Vicia hirsuta (Hairy Vetch)	Y		
451.		Vicia sativa subsp. nigra	Y		
451.		Vicia sativa subsp. sativa	Y		
		·	'		
453.	4325	Viminaria juncea (Swishbush)			
issidentacea		Einaidana taylarii yar taylarii			
	32409	Fissidens taylorii var. taylorii			
unariaceae 455.	32370	Funaria hygrometrica			
455.	32370	runana nygrometrica			
entianaceae	9				
456.	6539	Centaurium erythraea (Common Centaury)	Υ		
457.	6542	Centaurium tenuiflorum	Υ		
_					
eraniaceae					
458.	4332	Erodium botrys (Long Storksbill)	Υ		
459.	4335	Erodium cygnorum (Blue Heronsbill)			
460.	4343	Pelargonium capitatum (Rose Pelargonium)	Υ		
ioodeniacea	e				
461.	7420	Dampiera alata (Winged-stem Dampiera)			
462.	7428	Dampiera coronata (Wedge-leaved Dampiera)			
463.	7438	Dampiera eriocephala (Woolly-headed Dampiera)			
464.	7454	Dampiera linearis (Common Dampiera)			
465.	7462	Dampiera pedunculata			
466.		Dampiera spicigera (Spiked Dampiera)			
467.		Dampiera triloba		P1	
		Goodenia coerulea			
468.					
469.		Goodenia incana (Hoary Goodenia)			
470.		Goodenia micrantha			
471.	19286	Goodenia pulchella subsp. Coastal Plain A (M. Hislop 634)			
472.	7568	Lechenaultia biloba (Blue Leschenaultia)			
473.	7572	Lechenaultia expansa			
474.	7574	Lechenaultia floribunda (Free-flowering Leschenaultia)			
475.		Scaevola calliptera			
476.		Scaevola canescens (Grey Scaevola)			
		· · · ·			
477.		Scaevola glandulifera (Viscid Hand-flower)			
478.		Scaevola pilosa (Hairy Fan-flower)			
479.		Scaevola platyphylla (Broad-leaved Fanflower)			
480.		Scaevola repens			
481.	13182	Scaevola repens var. repens			
482.	13152	Scaevola thesioides subsp. thesioides			
483.	7665	Velleia trinervis			
racilariacea 484.		Gracilaria verrucosa			
aemodorac	eae				
485.		Anigozanthos bicolor subsp. bicolor			
486.	1407	ANIQUZANINUS NAVIUUS (TAN MANQATUU FAW)			
486. 487.		Anigozanthos flavidus (Tall Kangaroo Paw) Anigozanthos humilis (Catspaw)			







446	N	ame ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
440. 11/20 Angustantive merupasis talaga, merupasis 441. 1411 Connegly accessed infrience feet) 442. 1414 Connegly accessed in subgrangement 444. 11/21 Connegly accessed in subgrangement 444. 11/21 Connegly accessed in subgrangement 448. 1412 Connegly accessed in subgrangement 448. 1412 Connegly accessed in subgrangement 449. 1402 Connegly accessed in subgrangement 540. 1446 Connegly accessed in subgrangement 551. 1446 Connegly accessed in subgrangement 551. 1447 Connegly accessed in subgrangement 552. 1447 Connegly accessed in subgrangement 553. 1447 Connegly accessed in subgrangement 553. 1447 Connegly accessed in subgrangement 553. 1447 Connegly accessed in subgrangement 554. 1447 Connegly accessed in subgrangement 555. 1447 Connegly accessed in subgrangement 556. 1447 Connegly accessed in subgrangement 557. 1447 Connegly accessed in subgrangement 558. 1447 Connegly accessed in subgrangement 559. 1447 Connegly accessed in subgrangemen	488.	11434	Anigozanthos humilis subsp. humilis			
4417. 1447 Ristonica canacisance (Monte Risky) 4122. 1416 Concept)s acusted an object, sowhed 1412. 1416 Concept)s acusted an object, sowhed 1412. 1416 Concept)s acusted an object, sowhed 1416. 1412 Concept)s acusted and concept/orum 1416. 1412 Concept)s acusted and concept acusted	489.	1411	Anigozanthos manglesii (Mangles Kangaroo Paw)			
441	490.	11261	Anigozanthos manglesii subsp. manglesii			
1412 1112 Conceptive autoents (Pricely Conceptive)	491.					
495. 1198 Conceptly accessed made program 495. 1191 Conceptly accessed made program 495. 1192 Conceptly accessed made program 496. 1193 Conceptly accessed made program 497. 1194 Conceptly accessed made program 499. 1193 Conceptly accessed made program 499. 1203 Conceptly accessed made program 499. 1203 Conceptly accessed made program 499. 1203 Conceptly accessed made program 499. 1203 Conceptly accessed program 499. 1203 Conceptly accessed made program 499. 1204 Conceptly accessed made program 499. 120			, ,			
444. 11510 Consolyin acudent action, sygnorum 455. 1402 Consolyin acudentem (Tronspell) 456. 1402 Consolyin acudentem achieve renderine 458. 1402 Consolyin acudente subject certaines 458. 1402 Consolyin acudente subject certaines 458. 1402 Consolyin acudente subject certaines 459. 1402 Consolyin franciscosa active, interacusa 550. 1465 Consolyin franciscosa active, interacusa 550. 1466 Consolyin franciscosa active acti						
496. 1420 Conceignible acceptations (Proceedings) 496. 1420 Conceignible acceptations subspace conditions 496. 1420 Conceignible conditions subspace conditions 497. 14188 Canterly in control and subspace acceptance 498. 1420 Conceignible control acceptance 498. 1420 Conceignible control acceptance 690. 1430 Conceignible acceptance actually indicascere 690. 1431 Conceignible acceptance actually indicascere 690. 1431 Conceignible acceptance actually indicascere 690. 1432 Conceignible acceptance actually indicascere 690. 1447 Hammoritance acceptance 690. 1447 Hammoritance acceptance (Marchael) 690. 1447 Hammoritance acceptance (Marchael) 690. 1447 Hammoritance acceptance (Marchael) 691. 1447 Hammoritance acceptance (Marchael) 691. 1447 Hammoritance acceptance (Marchael) 691. 1447 Professoriations acceptance (Marchael) 691. 1447 Professoriations acceptance (Marchael) 691. 1448 Total Control of acceptance (Marchael) 691. 1447 Professoriations acceptance (Marchael) 691. 1448 Total Control of acceptance (Marchael) 691. 1449 Total Control of acceptance (Marchael) 691. 1440 Control of acceptance (Marchael) 691.						
1402 Conception surver Colorbor Conception						
488. 1438 Conveytile confesione activation and section						
488. 1426 Control/de carrière						
498	497.					
	498.	1429	Conostylis caricina			
1418 Convergée parison 502	499.	12035	Conostylis caricina subsp. caricina			
	500.	11695	Conostylis festucacea subsp. festucacea			
	501.	1436	Conostylis juncea			
1909 1909 Coronsyles seligence suches, seligence	502.	1454	Conostylis setigera (Bristly Cottonhead)			
1904 1495 Consolve Serbase White Contentron() 1905	503.					
1905. 1464 Alexandroum Developable						
1468						
597, 1489 Hamodoum kratum 1497 Homodoum proint 1497 Homod			•			
1470 Hemodocum pariculatium (Medigla)						
1472 Hamodourn appole					P3	
510. 1474 Hemodoxima spanstrum (Marigo)	508.					
511	509.	1472	Haemodorum simplex			
1472 1476 Philobocaryo pillotta 1481 740enanthes australia 1482 740enanthes surgipustal 1485 1486 1481 1485 1486 1481	510.	1474	Haemodorum sparsiflorum			
513. 1479 Phisbocany difficiles	511.	1475	Haemodorum spicatum (Mardja)			
513. 1479 Phisbocany difficiles	512.	1478	Phlebocarya ciliata			
144 Tabonanthes australia 145 Tabonanthes brachypotalia 146 Tabonanthes brachypotalia 146 Tabonanthes brachypotalia 147 148 Tabonanthes brachypotalia 148 Tabonanthes brachypotalia 148 Tabonanthes brachypotalia 148						
515.						
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S18. 6143 Gincotrocayon aurum (Common Popllower)	517.	1485	Tribonantnes violacea			
S18. 6143 Gincotrocayon aurum (Common Popllower)	Haloragaceae					
519. 6148 Gonocarpus cordiger	_	61/13	Glischrocanyon aureum (Common Ponflower)			
S20. 6161 Genocarpus pathyoides						
521. 34676 Melonactes brownii (Swamp Raspwort)						
\$22. \$6185 Myriophyllum aquaticum (Brazilian Weter Milfoli) Y						
523. 6189 Myriophyllum crispatum 524. 6192 Myriophyllum drummondii 525. 6193 Myriophyllum immondiilum 526. 6193 Myriophyllum immondiilum 527. 3016 Trihaloragis hexandra subsp. Integrifolia 528. 6195 Myriophyllum immondiilum 529. 3016 Trihaloragis hexandra subsp. Integrifolia 529. 1264 Amocrinum priessii 529. 1264 Amocrinum priessii 530. 1276 Caesia occidentalis 531. 1277 Caesia occidentalis 532. 1285 Corynotheca micrantha (Sand Lily) 532. 1285 Corynotheca micrantha (Sand Lily) 533. 1279 Dianella revoluta (Biberry Lily) 534. 11636 Dianella revoluta (Biberry Lily) 534. 11636 Dianella revoluta (Biberry Lily) 537. 19832 Johnsonia pubascenas (Pipe Lily) 537. 19832 Johnsonia pubascenas (Pipe Lily) 537. 19832 Johnsonia pubascenas (Pipe Lily) 538. 1293 Stypandra glauca (Bilind Grass) 539. 1393 Tricoryne tenella 1393 Tricoryne tenella 1404						
S24. 6192 Myriophyllum drummondii P3 S25. 6193 Myriophyllum drummondii P3 S25. 6195 Myriophyllum monophilum P3 S27. 35016 Trihaloragis haxandra subsp. integrifolia P3 Trihaloragis haxandra subsp. integrifolia P3 P3 P3 P3 P3 P3 P3 P	522.	6185	Myriophyllum aquaticum (Brazilian Water Milfoil)	Υ		
\$25. \$193 Myriophyllum echinatum \$P3	523.	6189	Myriophyllum crispatum			
S26. 6195 Myriophyllum limnophilum	524.	6192	Myriophyllum drummondii			
Hemerocallidaceae	525.	6193	Myriophyllum echinatum		P3	
Hemerocallidaceae	526.	6195	Myriophyllum limnophilum			
Hemerocallidaceae	527.	35016	Trihaloragis hexandra subsp. integrifolia			
528. 23474 Agrostocrinum hirsutum 529. 1264 Armocrinum preissi						
529. 1264 Armocrinum preissii	Hemerocallida	ceae				
530. 1276 Caesia micrantha (Pale Grass-lily) 531. 1277 Caesia cocidentalis 532. 1285 Corymotheca micrantha (Sand Lily) 533. 1289 Dianella revoluta (Blueberry Lily) 534. 11636 Dianella revoluta var. divaricata 535. 1293 Hensmania turbinata 536. 1298 Johnsonia pubescens (Pipe Lily) 537. 19632 Johnsonia pubescens subsp. pubescens 538. 1260 Stypandra glauca (Blind Grass) 539. 1361 Tricoryne elatior (Yellow Autumn Lily) 540. 1363 Trictoryne tenella Hydatellaceae 541. 1139 Trithuria bibracteata 542. 32658 Trithuria cocidentalis (Swan Hydatella) T Hydrocharitaceae 543. 159 Egeria densa (Dense Waterweed) Y 544. 166 Hydrilla verticillata (Water Thyme) 545. 17868 Vallisneria ama Hypericaceae 547. 11736 Hypoxis occidentalis var. occidentalis 548. <t< td=""><td>528.</td><td>23474</td><td>Agrostocrinum hirsutum</td><td></td><td></td><td></td></t<>	528.	23474	Agrostocrinum hirsutum			
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532. 1285 Corynotheca micrantha (Sand Lily) 533. 1259 Dianella revoluta (Blueberry Lily) 534. 11636 Dianella revoluta var. divaricata 535. 1293 Hensmania turbinata 536. 1298 Johnsonia pubescens (Pipe Lily) 537. 19632 Johnsonia pubescens subsp. pubescens 538. 1260 Stypandra glauca (Blind Grass) 539. 1361 Tricoryne elatior (Yellow Autumn Lily) 540. 1363 Tricoryne tenella Hydatellaceae 541. 1139 Trithuria obiracteata 542. 32658 Trithuria occidentalis (Swan Hydatella) T Hydrocharitaceae 543. 159 Egeria densa (Dense Waterweed) Y 544. 166 Hydrilla verticillata (Water Thyme) 545. 17868 Vallisneria nane Hypericaceae 546. 5180 Hypericum gramineum (Small St John's Wort) Hypoxidaceae 547. 11736 Hypoxis occidentalis var. occidentalis 548. 11845 Hypo	530.	1276	Caesia micrantha (Pale Grass-lily)			
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534. 11636 Dianella revoluta var. divaricata 535. 1293 Hensmania turbinata 536. 1298 Johnsonia pubescens (Pipe Lily) 537. 1963 Johnsonia pubescens subsp. pubescens 538. 1260 Stypandra glauca (Blind Grass) 539. 1361 Tricoryne elatior (Yellow Autumn Lily) 540. 1363 Tritoryne tenella Hydatellaceae 541. 1139 Trithuria bibracteata 542. 32658 Trithuria occidentalis (Swan Hydatella) T Hydrocharitaceae 543. 159 Egeria densa (Dense Waterweed) Y 544. 166 Hydrilla verticillata (Water Thyme) Y 545. 17868 Vallisneria nana Hypericaceae 546. 5180 Hypericum gramineum (Small St John's Wort) Hypoxidaceae 547. 11736 Hypoxis occidentalis var. occidentalis 548. 11845 Hypoxis occidentalis var. quadriloba						
535. 1293 Hensmania turbinata 536. 1298 Johnsonia pubescens (Pipe Lily) 537. 19632 Johnsonia pubescens subsp. pubescens 538. 1260 Stypandra glauca (Blind Grass) 539. 1361 Tricoryne elatior (Yellow Autumn Lily) 540. 1363 Tricoryne tenella Hydatellaceae 541. 1139 Trithuria bibracteata 542. 32658 Trithuria occidentalis (Swan Hydatella) T Hydrocharitaceae 543. 159 Egeria densa (Dense Waterweed) Y 544. 166 Hydrilla verticillata (Water Thyme) Y 545. 17868 Vallisneria nana Hypericaceae 546. 5180 Hypericum gramineum (Small St John's Wort) Hypoxidaceae 547. 11736 Hypoxis occidentalis var. occidentalis 548. 11845 Hypoxis occidentalis var. quadriloba						
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541. 1139 Trithuria bibracteata 542. 32658 Trithuria occidentalis (Swan Hydatella) Hydrocharitaceae 543. 159 Egeria densa (Dense Waterweed) 544. 166 Hydrilla verticillata (Water Thyme) 545. 17868 Vallisneria nana Hypericaceae 546. 5180 Hypericum gramineum (Small St John's Wort) Hypoxidaceae 547. 11736 Hypoxis occidentalis var. occidentalis 548. 11845 Hypoxis occidentalis var. quadriloba	540.	1363	Tricoryne tenella			
541. 1139 Trithuria bibracteata 542. 32658 Trithuria occidentalis (Swan Hydatella) Hydrocharitaceae 543. 159 Egeria densa (Dense Waterweed) 544. 166 Hydrilla verticillata (Water Thyme) 545. 17868 Vallisneria nana Hypericaceae 546. 5180 Hypericum gramineum (Small St John's Wort) Hypoxidaceae 547. 11736 Hypoxis occidentalis var. occidentalis 548. 11845 Hypoxis occidentalis var. quadriloba	lludatall					
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543. 159 Egeria densa (Dense Waterweed) Y 544. 166 Hydrilla verticillata (Water Thyme) 545. 17868 Vallisneria nana Hypericaceae 546. 5180 Hypericum gramineum (Small St John's Wort) Hypoxidaceae 547. 11736 Hypoxis occidentalis var. occidentalis 548. 11845 Hypoxis occidentalis var. quadriloba	542.	32658	Trithuria occidentalis (Swan Hydatella)		Т	
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Hypericaceae 546. 5180 Hypericum gramineum (Small St John's Wort) Hypoxidaceae 547. 11736 Hypoxis occidentalis var. occidentalis 548. 11845 Hypoxis occidentalis var. quadriloba						
546. 5180 Hypericum gramineum (Small St John's Wort) Hypoxidaceae 547. 11736 Hypoxis occidentalis var. occidentalis 548. 11845 Hypoxis occidentalis var. quadriloba	545.	17868	Vallisneria nana			
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Hypoxidaceae 547. 11736 Hypoxis occidentalis var. occidentalis 548. 11845 Hypoxis occidentalis var. quadriloba		5180	Hypericum gramineum (Small St. John's Wort)			
547. 11736 Hypoxis occidentalis var. occidentalis 548. 11845 Hypoxis occidentalis var. quadriloba	J-10.	3100	Typonian granmoun formal of John Worth			
547. 11736 Hypoxis occidentalis var. occidentalis 548. 11845 Hypoxis occidentalis var. quadriloba	Hypoxidaceae					
548. 11845 Hypoxis occidentalis var. quadriloba			Hypoxis occidentalis var. occidentalis			
	548.					
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	ame ib	Species Name	Naturalised (Conservation Code	¹ Endemic To Q Area
idaceae					
549.	18279	Babiana angustifolia	Υ		
550.	1513	Chasmanthe floribunda (African Cornflag)	Υ		
551.	18392	Freesia alba x leichtlinii	Υ		
552.	18298	Gladiolus carneus	Υ		
553.	1520	Gladiolus caryophyllaceus (Wild Gladiolus)	Υ		
554.	1524	Gladiolus undulatus (Wild Gladiolus)	Υ		
555.	1526	Hesperantha falcata	Υ		
556.	19180	Moraea miniata (Two-leaf Cape Tulip)	Υ		
557.		Orthrosanthus laxus var. gramineus (Grass-leaved Orthrosanthus)			
558.		Orthrosanthus laxus var. laxus (Morning Iris)			
559.		Patersonia juncea (Rush Leaved Patersonia)			
560.		Patersonia occidentalis (Purple Flag)			
		, , ,			
561.		Patersonia occidentalis var. occidentalis			
562.		Patersonia rudis subsp. rudis			
563.		Romulea flava	Υ		
564.	14485	Romulea flava var. minor	Υ		
565.	1556	Romulea rosea (Guildford Grass)	Υ		
566.	11544	Romulea rosea var. australis (Guildford Grass)	Υ		
567.	1558	Sparaxis bulbifera	Υ		
568.	18118	Watsonia meriana var. meriana	Υ		
			·		
ıncaceae					
569.		Juncus acutus subsp. acutus	Υ		
570.	8328	Juncus amabilis			
571.	1176	Juncus aridicola			
572.	1180	Juncus capitatus (Capitate Rush)	Υ		
573.	1185	Juncus kraussii (Sea Rush)			
574.		Juncus kraussii subsp. australiensis			
575.		Juncus microcephalus	Υ		
576.		Juncus pallidus (Pale Rush)	•		
577.	1196	Luzula meridionalis (Field Woodrush)			
ıncaginac	eae				
578.	40661	Cycnogeton lineare			
579.		Triglochin mucronata			
580.		Triglochin nana			
581.		Triglochin striata			
001.	101	This commoditate			
amiaceae					
582.	16934	Hemiandra glabra subsp. glabra			
583.	6836	Hemiandra incana			
584.	6838	Hemiandra linearis (Speckled Snakebush)			
585.	6839	Hemiandra pungens (Snakebush)			
586.		Hemigenia argentea			
587.		Hemigenia incana (Silky Hemigenia)			
		, , , ,			
588.		Hemiphora bartlingii (Woolly Dragon)			
589.		Mentha x piperita var. citrata	Υ		
590.	6930	Stachys arvensis (Staggerweed)	Υ		
uraceae					
591.	2051	Cassytha flava (Dodder Laurel)			
591.		Cassytha glabella (Tangled Dodder Laurel)			
593.		Cassytha glabella forma casuarinae			
594.		Cassytha pomiformis (Dodder Laurel)			
595.	2957	Cassytha racemosa (Dodder Laurel)			
entibularia	reae				
		Utricularia inacqualis			
596.		Utricularia inaequalis			
597.		Utricularia menziesii (Redcoats)			
598.		Utricularia multifida			
599.	7157	Utricularia violacea (Violet Bladderwort)			
600.	7158	Utricularia volubilis (Twining Bladderwort)			
naceae					
	4000	Linum trigunum (Franch Flow)	V		
601.		Linum trigynum (French Flax)	Y		
602.	4364	Linum usitatissimum (Flax)	Υ		
ganiacea	е				
		Logania campanulata (Bell-flowered Logania)			
603.	2000	J,			
603. oranthacea	ae				
		Amyema linophylla			







		Species Name	Naturalised	Conservation Code	Area
606.	2401	Nuytsia floribunda (Christmas Tree)			
ythraceae.					
607.	5281	Lythrum hyssopifolia (Lesser Loosestrife)	Υ		
/lalvaceae					
608.	19708	Abutilon grandifolium	Υ		
609.	17900	Alyogyne pinoniana var. leptochlamys			
610.	5013	Guichenotia micrantha (Small Flowered Guichenotia)			
611.	4926	Hibiscus diversifolius	Υ		
612.		Lasiopetalum bracteatum (Helena Velvet Bush)		P4	
613.		Thomasia foliosa			
614.		Thomasia glutinosa var. glutinosa			
615.		Thomasia grandiflora (Large Flowered Thomasia)			
616. 617.		Thomasia macrocarpa (Large Fruited Thomasia) Thomasia pauciflora (Few Flowered Thomasia)			
		moniasia paucinora (i ew i lowereu moniasia)			
Marsileaceae	•				
618.		Marsilea drummondii (Common Nardoo)			
619.	77	Marsilea mutica			
Menyanthac	eae				
620.	36160	Liparophyllum capitatum			
621.	36179	Liparophyllum violifolium			
622.		Ornduffia albiflora			
623.	36200	Ornduffia submersa		P4	
Molluginace	ae				
624.		Macarthuria apetala			
625.		Macarthuria australis			
626.		Macarthuria keigheryi		Т	
		,			
Moraceae					
627.	1747	Ficus carica (Common Fig)	Υ		
Myrtaceae					
628.	20350	Astartea affinis			
629.	20249	Astartea leptophylla			
630.	20283	Astartea scoparia			
631.	36441	Babingtonia camphorosmae (Camphor Myrtle)			
632.	15785	Baeckea sp. Darling Range (R.J. Cranfield 1673)			
633.		Beaufortia macrostemon			
634.		Beaufortia squarrosa (Sand Bottlebrush)			
635.		Calothamnus accedens		P4	
636.		Calothamnus lateralis			
637.		Calothamnus quadrifidus subsp. quadrifidus			
638.		Calothamnus sanguineus (Silky-leaved Blood flower) Calothrix angulata (Vallow Starflower)			
639. 640.		Calytrix angulata (Yellow Starflower) Calytrix aurea			
641.		Calytrix dated Calytrix flavescens (Summer Starflower)			
642.		Calytrix fraseri (Pink Summer Calytrix)			
643.		Calytrix glutinosa			
644.		Calytrix leschenaultii			
645.		Chamelaucium uncinatum (Geraldton Wax)			
646.		Conothamnus trinervis			
647.	17104	Corymbia calophylla (Marri)			
648.		Darwinia apiculata (Scarp Darwinia)		Т	
649.		Darwinia citriodora (Lemon-scented Darwinia)			
650.		Eremaea fimbriata			
651.	5541	Eremaea pauciflora			
652.	14104	Eremaea pauciflora var. pauciflora			
653.	5708	Eucalyptus marginata (Jarrah)			
654.	13547	Eucalyptus marginata subsp. marginata (Jarrah)			
655.	13548	Eucalyptus marginata subsp. thalassica (Blue-leaved Jarrah)			
656.	5763	Eucalyptus rudis (Flooded Gum)			
657.	13511	Eucalyptus rudis subsp. rudis			
658.	5790	Eucalyptus todtiana (Coastal Blackbutt)			
659.	12906	Eucalyptus wandoo subsp. wandoo			
660.	5816	Homalospermum firmum			
661.	5817	Hypocalymma angustifolium (White Myrtle)			
662.	35074	Hypocalymma angustifolium subsp. Dandaragan plateau (S. Patrick 702A)			
002.		Hypocalymma angustifolium subsp. Swan Coastal Plain (G.J. Keighery 16777)			
663.	35070	Trypocalymina angustilolium subsp. Swam Coastal Flain (G.J. Reighery 10777)			
		Hypocalymma robustum (Swan River Myrtle)			







ı	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Qu Area
				P2	
666.		Kunzea glabrescens (Spearwood)			
667.		Leptospermum erubescens (Roadside Teatree)			
668.		Melaleuca citrina	Y		
669.		Melaleuca cuticularis (Saltwater Paperbark)			
670. 671.		Melaleuca incana subsp. incana Melaleuca lanceolata (Rottnest Teatree)			
672.		Melaleuca lateritia (Robin Redbreast Bush)			
673.		Melaleuca preissiana (Moonah)			
674.		Melaleuca radula (Graceful Honeymyrtle)			
675.		Melaleuca rhaphiophylla (Swamp Paperbark)			
676.	5961	Melaleuca scabra (Rough Honeymyrtle)			
677.	5964	Melaleuca seriata			
678.	5978	Melaleuca teretifolia (Banbar)			
679.	5983	Melaleuca trichophylla			
680.		Melaleuca tuberculata var. tuberculata			
681.		Melaleuca viminalis		P2	
682.		Melaleuca viminea (Mohan)			
683.		Melaleuca viminea subsp. viminea			
684.		Pericalymma ellipticum var. floridum			
685. 686.		Regelia ciliata Scholtzia involucrata (Spiked Scholtzia)			
687.		Taxandria linearifolia			
688.		Verticordia acerosa var. acerosa			
689.	12388	Verticordia acerosa var. preissii			
690.		Verticordia densiflora var. densiflora			
691.	6077	Verticordia drummondii (Drummond's Featherflower)			
692.	15433	Verticordia huegelii var. huegelii			
693.	14714	Verticordia lindleyi subsp. lindleyi		P4	
694.	6101	Verticordia nitens (Morrison Featherflower)			
695.	6107	Verticordia pennigera			
696.		Verticordia picta (Painted Featherflower)			
697.		Verticordia plumosa var. brachyphylla			
698.	15618	Verticordia plumosa var. plumosa			
lacaceae					
699.	2365	Olax benthamiana			
700.	2367	Olax scalariformis			
nagraceae					
701.	6132	Epilobium ciliatum	Υ		
		Epilobium hirtigerum (Hairy Willow Herb)			
702.	6133	Lpilobium mitigerum (nairy willow nerb)			
702. 703.		Epilobium tetragonum subsp. tetragonum	Υ		
	14289		Y Y		
703. 704.	14289	Epilobium tetragonum subsp. tetragonum			
703. 704. rchidaceae	14289 6138	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose)			
703. 704.	14289 6138 15330	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola			
703. 704. rchidaceae 705.	14289 6138 15330 11136	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose)			
703. 704. rchidaceae 705. 706.	14289 6138 15330 11136 20433	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata			
703. 704. rchidaceae 705. 706. 707.	14289 6138 15330 11136 20433 1586	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592)			
703. 704. rchidaceae 705. 706. 707. 708.	14289 6138 15330 11136 20433 1586 15348	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid)			
703. 704. rchidaceae 705. 706. 707. 708. 709.	14289 6138 15330 11136 20433 1586 15348 15502	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid) Caladenia flava subsp. flava			
703. 704. rchidaceae 705. 706. 707. 708. 709. 710.	14289 6138 15330 11136 20433 1586 15348 15502 17980	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid) Caladenia flava subsp. flava Caladenia footeana		Т	
703. 704. rchidaceae 705. 706. 707. 708. 709. 710. 711.	14289 6138 15330 11136 20433 1586 15348 15502 17980 1596	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid) Caladenia flava subsp. flava Caladenia footeana Caladenia hiemalis		Т	
703. 704. rchidaceae 705. 706. 707. 708. 709. 710. 711. 712.	14289 6138 15330 11136 20433 1586 15348 15502 17980 1596	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid) Caladenia flava subsp. flava Caladenia footeana Caladenia hiemalis Caladenia huegelii (Grand Spider Orchid)		Т	
703. 704. rchidaceae 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715.	14289 6138 15330 11136 20433 1586 15348 15502 17980 1596 1599 15361 15365	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid) Caladenia flava subsp. flava Caladenia footeana Caladenia hiemalis Caladenia huegelii (Grand Spider Orchid) Caladenia latifolia (Pink Fairy Orchid) Caladenia longicauda subsp. calcigena Caladenia longicauda subsp. longicauda		Т	
703. 704. rchidaceae 705. 706. 707. 708. 709. 710. 711. 712. 713. 714.	14289 6138 15330 11136 20433 1586 15348 15502 17980 1596 1599 15361 15365	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid) Caladenia flava subsp. flava Caladenia floteana Caladenia hiemalis Caladenia hiemalis Caladenia huegelii (Grand Spider Orchid) Caladenia latifolia (Pink Fairy Orchid) Caladenia longicauda subsp. calcigena		Т	
703. 704. rchidaceae 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717.	14289 6138 15330 11136 20433 1586 15348 15502 17980 1596 1599 15361 15365 15503 1609	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid) Caladenia flava subsp. flava Caladenia floteana Caladenia hiemalis Caladenia hiemalis Caladenia huegelii (Grand Spider Orchid) Caladenia latifolia (Pink Fairy Orchid) Caladenia longicauda subsp. calcigena Caladenia longicauda subsp. longicauda Caladenia paludosa Caladenia pectinata (King Spider Orchid)		T	
703. 704. rchidaceae 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718.	14289 6138 15330 11136 20433 1586 15348 15502 17980 1596 1599 15361 15365 15503 1609 15377	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid) Caladenia flava subsp. flava Caladenia floteana Caladenia hiemalis Caladenia hiemalis Caladenia huegelii (Grand Spider Orchid) Caladenia latifolia (Pink Fairy Orchid) Caladenia longicauda subsp. calcigena Caladenia longicauda subsp. longicauda Caladenia paludosa Caladenia pectinata (King Spider Orchid) Caladenia reptans subsp. reptans		T	
703. 704. rchidaceae 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719.	14289 6138 15330 11136 20433 1586 15348 15502 17980 1596 1599 15361 15365 15503 1609 15377 15114	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid) Caladenia flava subsp. flava Caladenia floteana Caladenia hiemalis Caladenia hiemalis Caladenia huegelii (Grand Spider Orchid) Caladenia latifolia (Pink Fairy Orchid) Caladenia longicauda subsp. calcigena Caladenia longicauda subsp. longicauda Caladenia paludosa Caladenia pectinata (King Spider Orchid) Caladenia reptans subsp. reptans Cyanicula gemmata		T	
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703. 704. rchidaceae 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721.	14289 6138 15330 11136 20433 1586 15348 15502 17980 1599 15361 15365 15503 1609 15377 15114 10942 12943 11049	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid) Caladenia flava subsp. flava Caladenia floteana Caladenia hiemalis Caladenia hiemalis Caladenia huegelii (Grand Spider Orchid) Caladenia latifolia (Pink Fairy Orchid) Caladenia longicauda subsp. calcigena Caladenia longicauda subsp. longicauda Caladenia petinata (King Spider Orchid) Caladenia petinata (King Spider Orchid) Caladenia petinata (King Spider Orchid) Caladenia reptans subsp. reptans Cyanicula gemmata Cyrtostylis tenuissima Diuris brumalis Diuris corymbosa		T	
703. 704. rchidaceae 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723.	14289 6138 15330 11136 20433 1586 15348 15502 17980 1599 15361 15365 15503 1609 15377 15114 10942 12943 11049 1634	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid) Caladenia flava subsp. flava Caladenia floteana Caladenia hiemalis Caladenia hiemalis Caladenia latifolia (Pink Fairy Orchid) Caladenia longicauda subsp. calcigena Caladenia longicauda subsp. longicauda Caladenia pectinata (King Spider Orchid) Caladenia reptans subsp. reptans Cyanicula gemmata Cyrtostylis tenuissima Diuris brumalis Diuris laxiflora (Bee Orchid)		T	
703. 704. rchidaceae 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724.	14289 6138 15330 11136 20433 1586 15348 15502 17980 1599 15361 15365 15503 1609 15377 15114 10942 12943 11049 1634 12939	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid) Caladenia flava subsp. flava Caladenia footeana Caladenia hiemalis Caladenia hiemalis Caladenia latifolia (Pink Fairy Orchid) Caladenia longicauda subsp. calcigena Caladenia longicauda subsp. longicauda Caladenia paludosa Caladenia pectinata (King Spider Orchid) Caladenia pectinata (King Spider Orchid) Caladenia potinata (King Spider Orchid) Caladenia reptans subsp. reptans Cyanicula gemmata Cyrtostylis tenuissima Diuris brumalis Diuris corymbosa Diuris laxiflora (Bee Orchid) Diuris magnifica		T	
703. 704. rchidaceae 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725.	14289 6138 15330 11136 20433 1586 15348 15502 17980 1599 15361 15365 15503 1609 15377 15114 10942 12943 11049 1634 12939 15436	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid) Caladenia flava subsp. flava Caladenia footeana Caladenia hiemalis Caladenia hiemalis Caladenia latifolia (Pink Fairy Orchid) Caladenia longicauda subsp. calcigena Caladenia longicauda subsp. longicauda Caladenia pectinata (King Spider Orchid) Caladenia reptans subsp. reptans Cyanicula gemmata Cyrtostylis tenuissima Diuris brumalis Diuris corymbosa Diuris laxiflora (Bee Orchid) Diuris magnifica Diuris porrifolia		T	
703. 704. rchidaceae 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726.	14289 6138 15330 11136 20433 1586 15348 15502 17980 1599 15361 15365 15503 1609 15377 15114 10942 12943 11049 1634 12939 15436 15406	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid) Caladenia flava subsp. flava Caladenia footeana Caladenia hiemalis Caladenia huegelii (Grand Spider Orchid) Caladenia latifolia (Pink Fairy Orchid) Caladenia longicauda subsp. calcigena Caladenia longicauda subsp. longicauda Caladenia paludosa Caladenia pectinata (King Spider Orchid) Caladenia pectinata (King Spider Orchid) Caladenia pectinata (King Spider Orchid) Caladenia reptans subsp. reptans Cyanicula gemmata Cyrtostylis tenuissima Diuris brumalis Diuris corymbosa Diuris laxiflora (Bee Orchid) Diuris magnifica Diuris porrifolia Drakaea gracilis		T	
703. 704. rchidaceae 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727.	14289 6138 15330 11136 20433 1586 15348 15502 17980 1599 15361 15365 15503 1609 15377 15114 10942 12943 11049 1634 12939 15436 15406 11156	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid) Caladenia flava subsp. flava Caladenia flooteana Caladenia hiemalis Caladenia huegelii (Grand Spider Orchid) Caladenia latifolia (Pink Fairy Orchid) Caladenia longicauda subsp. calcigena Caladenia longicauda subsp. longicauda Caladenia paludosa Caladenia pectinata (King Spider Orchid) Caladenia pectinata (King Spider Orchid) Caladenia pectinata (King Spider Orchid) Caladenia reptans subsp. reptans Cyanicula gemmata Cyrtostylis tenuissima Diuris brumalis Diuris corymbosa Diuris laxiflora (Bee Orchid) Diuris magnifica Diuris porrifolia Drakaea gracilis Drakaea livida		T	
703. 704. rchidaceae 705. 706. 707. 708. 709. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726.	14289 6138 15330 11136 20433 1586 15348 15502 17980 1599 15361 15365 15503 1609 15377 15114 10942 12943 11049 1634 12939 15436 15406 11156 1643	Epilobium tetragonum subsp. tetragonum Oenothera drummondii (Beach Evening Primrose) Caladenia arenicola Caladenia denticulata Caladenia denticulata subsp. Jarrah forest (G.J. Keighery 13592) Caladenia discoidea (Dancing Orchid) Caladenia flava subsp. flava Caladenia footeana Caladenia hiemalis Caladenia huegelii (Grand Spider Orchid) Caladenia latifolia (Pink Fairy Orchid) Caladenia longicauda subsp. calcigena Caladenia longicauda subsp. longicauda Caladenia paludosa Caladenia pectinata (King Spider Orchid) Caladenia pectinata (King Spider Orchid) Caladenia pectinata (King Spider Orchid) Caladenia reptans subsp. reptans Cyanicula gemmata Cyrtostylis tenuissima Diuris brumalis Diuris corymbosa Diuris laxiflora (Bee Orchid) Diuris magnifica Diuris porrifolia Drakaea gracilis		T	







ı	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que Area
731.		Eriochilus helonomos			
732.		Eriochilus scaber subsp. scaber			
733.		Leptreerre marzineii			
734.		Leptoceras menziesii Microtio albo (Mhito Micropotto Orobid)			
735.		Microtis alba (White Mignonette Orchid)			
736. 737.		Microtis alboviridis Microtis atrata (Swamp Mignonette Orchid)			
		Microtis media (Tall Mignonette Orchid)			
738.		, , ,			
739. 740.		Microtis media subsp. densiflora			
		Microtis media subsp. media Paracaleana hortiorum			
741.		Pheladenia deformis			
742. 743.					
		Prasophyllum drummondii (Swamp Leek Orchid)			
744.		Prasophyllum elatum (Tall Leek Orchid)			
745.		Prasophyllum fimbria (Fringed Leek Orchid)			
746.		Prasophyllum gibbosum (Humped Leek Orchid)			
747.		Prasophyllum giganteum (Bronze Leek Orchid)			
748.		Prasophyllum macrostachyum (Laughing Leek Orchid)			
749.		Prasophyllum odoratissimum			
750.		Prasophyllum parvifolium (Autumn Leek Orchid)			
751.		Prasophyllum plumiforme			
752.		Pterostylis recurva (Jug Orchid)			
753.		Pterostylis sanguinea			
754.		Pyrorchis nigricans (Red beaks)			
755.		Thelymitra antennifera (Vanilla Orchid)			
756.		Thelymitra benthamiana (Cinnamon Sun Orchid)			
757.	1702	Thelymitra campanulata (Shirt Orchid)			
758.	1704	Thelymitra cornicina (Lilac Sun Orchid)			
759.	1705	Thelymitra crinita (Blue Lady Orchid)			
760.	1707	Thelymitra flexuosa (Twisted Sun Orchid)			
761.	11053	Thelymitra macrophylla			
762.	20729	Thelymitra magnifica		P1	
763.	1710	Thelymitra mucida (Plum Orchid)			
764.	10862	Thelymitra stellata (Star Sun Orchid)		Т	
765.	1716	Thelymitra tigrina (Tiger Orchid)			
766.	20731	Thelymitra vulgaris			
robanchace					
767.		Orobanche minor (Lesser Broomrape)	Υ		
707.	1122	Orobanche minor (Lesser Broomrape)	į.		
xalidaceae					
768.	33256	Oxalis bowiei (Bowie Wood Sorrel)	Υ		
769.	30375	Oxalis exilis			
770.	4352	Oxalis glabra	Υ		
771.		Oxalis incarnata	Υ		
772.	4358	Oxalis purpurea (Largeflower Wood Sorrel)	Υ		
	_				
apaveraceae					
773.		Fumaria capreolata (Whiteflower Fumitory)	Y		
774.		Fumaria muralis subsp. muralis	Υ		
775.	2967	Romneya coulteri (California Tree Poppy)	Υ		
hilydraceae		Philydrella drummondii			
-	1172				
776.					
776. 777.	1173	Philydrella pygmaea (Butterfly Flowers)			
777. hyllanthacea	1173 ae	Philydrella pygmaea (Butterfly Flowers)			
776. 777.	1173 ae				
776. 777. hyllanthacea	1173 ae 4675	Philydrella pygmaea (Butterfly Flowers)			
776. 777. nyllanthace a 778.	1173 ae 4675 4688	Philydrella pygmaea (Butterfly Flowers) Phyllanthus calycinus (False Boronia)			
776. 777. hyllanthacea 778. 779. 780.	1173 ae 4675 4688 4691	Philydrella pygmaea (Butterfly Flowers) Phyllanthus calycinus (False Boronia) Poranthera drummondii			
776. 777. nyllanthacea 778. 779. 780.	1173 ae 4675 4688 4691 ae	Philydrella pygmaea (Butterfly Flowers) Phyllanthus calycinus (False Boronia) Poranthera drummondii Poranthera microphylla (Small Poranthera)	v		
776. 777. hyllanthacea 778. 779. 780.	1173 ae 4675 4688 4691 ae	Philydrella pygmaea (Butterfly Flowers) Phyllanthus calycinus (False Boronia) Poranthera drummondii	Y		
776. 777. hyllanthacea 778. 779. 780. hytolaccace 781.	1173 ae 4675 4688 4691 ae 2793	Philydrella pygmaea (Butterfly Flowers) Phyllanthus calycinus (False Boronia) Poranthera drummondii Poranthera microphylla (Small Poranthera)	Y		
776. 777. hyllanthacea 778. 779. 780. hytolaccace 781.	1173 ae	Philydrella pygmaea (Butterfly Flowers) Phyllanthus calycinus (False Boronia) Poranthera drummondii Poranthera microphylla (Small Poranthera)	Y		
776. 777. hyllanthacea 778. 779. 780. hytolaccace 781.	1173 ae	Philydrella pygmaea (Butterfly Flowers) Phyllanthus calycinus (False Boronia) Poranthera drummondii Poranthera microphylla (Small Poranthera) Phytolacca octandra (Red Ink Plant)	Y		
776. 777. hyllanthacea 778. 779. 780. hytolaccace 781. ittosporacea 782. 783.	1173 ae	Philydrella pygmaea (Butterfly Flowers) Phyllanthus calycinus (False Boronia) Poranthera drummondii Poranthera microphylla (Small Poranthera) Phytolacca octandra (Red Ink Plant) Billardiera fraseri (Elegant Pronaya)	Y		
776. 777. hyllanthacea 778. 779. 780. hytolaccace 781. ittosporacea 782. 783.	1173 ae 4675 4688 4691 ae 2793 ae 25788 17635	Philydrella pygmaea (Butterfly Flowers) Phyllanthus calycinus (False Boronia) Poranthera drummondii Poranthera microphylla (Small Poranthera) Phytolacca octandra (Red Ink Plant) Billardiera fraseri (Elegant Pronaya) Marianthus drummondianus			
776. 777. hyllanthacea 778. 779. 780. hytolaccace 781. ittosporacea 782. 783. lantaginacea	1173 ae 4675 4688 4691 ae 2793 ae 25788 17635 ae 16346	Philydrella pygmaea (Butterfly Flowers) Phyllanthus calycinus (False Boronia) Poranthera drummondii Poranthera microphylla (Small Poranthera) Phytolacca octandra (Red Ink Plant) Billardiera fraseri (Elegant Pronaya) Marianthus drummondianus Bacopa monnieri	Y		
776. 777. hyllanthacea 778. 780. hytolaccace 781. ittosporacea 782. 783. lantaginacea 784. 785.	1173 ae	Philydrella pygmaea (Butterfly Flowers) Phyllanthus calycinus (False Boronia) Poranthera drummondii Poranthera microphylla (Small Poranthera) Phytolacca octandra (Red Ink Plant) Billardiera fraseri (Elegant Pronaya) Marianthus drummondianus Bacopa monnieri Callitriche stagnalis (Common Starwort)			
776. 777. hyllanthacea 778. 780. hytolaccace 781. ittosporacea 782. 783. lantaginacea 784. 785. 786.	1173 ae	Philydrella pygmaea (Butterfly Flowers) Phyllanthus calycinus (False Boronia) Poranthera drummondii Poranthera microphylla (Small Poranthera) Phytolacca octandra (Red Ink Plant) Billardiera fraseri (Elegant Pronaya) Marianthus drummondianus Bacopa monnieri Callitriche stagnalis (Common Starwort) Gratiola pubescens	Y Y		
776. 777. hyllanthacea 778. 780. hytolaccace 781. ittosporacea 782. 783. lantaginacea 784. 785.	1173 ae	Philydrella pygmaea (Butterfly Flowers) Phyllanthus calycinus (False Boronia) Poranthera drummondii Poranthera microphylla (Small Poranthera) Phytolacca octandra (Red Ink Plant) Billardiera fraseri (Elegant Pronaya) Marianthus drummondianus Bacopa monnieri Callitriche stagnalis (Common Starwort)	Y		







	Name ID	Species Name	Naturalised	Conservation Code ¹ Endemic To CA
789. 700		Plantago lanceolata (Ribwort Plantain)	Y	
790.	7304	Plantago major (Greater Plantain)	Υ	
aceae				
791.		Aira cupaniana (Silvery Hairgrass)	Υ	
792.		Alopecurus myosuroides (Slender Foxtail)	Υ	
793.		Amphipogon amphipogonoides		
794. 795.		Amphipogon laguraides subsp. laguraides		
795. 796.		Amphipogon laguroides subsp. laguroides Amphipogon turbinatus		
797.		Arundo donax (Giant Reed)	Υ	
798.		Austrostipa campylachne		
799.		Austrostipa compressa		
800.	17237	Austrostipa elegantissima		
801.	17241	Austrostipa hemipogon		
802.	17257	Austrostipa variabilis		
803.	231	Avellinia michelii	Υ	
804.		Avena barbata (Bearded Oat)	Υ	
805.		Briza maxima (Blowfly Grass)	Υ	
806.		Briza minor (Shivery Grass)	Y	
807.		Bromus alopecuros	Y	
808.		Bromus catharticus (Prairie Grass)	Y	
809.		Bromus hordeaceus (Soft Brome)	Y	
810. 811.		Bromus madritensis (Madrid Brome) Cenchrus echinatus (Burrgrass)	Y	
812.		Cenchrus Iongisetus (Feathertop)	Y	
813.		Cenchrus macrourus (African Feather Grass)	Y	
814.		Cenchrus purpureus (Elephant Grass)	Y	
815.		Coix lacryma-jobi (Job's Tears)	Y	Υ
816.		Cortaderia selloana (Pampas Grass)	Y	·
817.		Crypsis schoenoides	Υ	
818.	320	Digitaria sanguinalis (Crab Grass)	Υ	
819.	338	Echinochloa telmatophila (Swamp Barnyard Grass)	Υ	
820.	11818	Ehrharta brevifolia var. brevifolia	Υ	
821.	11485	Ehrharta brevifolia var. cuspidata	Y	
822.	347	Ehrharta calycina (Perennial Veldt Grass)	Υ	
823.		Ehrharta longiflora (Annual Veldt Grass)	Y	
824.		Eragrostis curvula (African Lovegrass)	Y	
825.		Eragrostis elongata (Clustered Lovegrass)		
826.		Eustachys distichophylla (Evergreen Chloris)	Y	
827. 828.		Festuca pratensis (Meadow Fescue) Gastridium phleoides (Nitgrass)	Y	
829.		Holcus lanatus (Yorkshire Fog)	Y	
830.		Hordeum leporinum (Barley Grass)	Y	
831.		Hyparrhenia hirta (Tambookie Grass)	Y	
832.		Lachnagrostis filiformis		
833.		Lagurus ovatus (Hare's Tail Grass)	Υ	
834.		Lolium perenne (Perennial Ryegrass)	Y	
835.	14985	Melinis repens	Υ	
836.	492	Neurachne alopecuroidea (Foxtail Mulga Grass)		
837.	527	Paspalum dilatatum	Υ	
838.	532	Paspalum urvillei (Vasey Grass)	Υ	
839.	40422	Pentameris pallida	Y	
840.	547	Phalaris angusta	Y	
841.		Phalaris minor (Lesser Canary Grass)	Υ	
842.		Phalaris paradoxa (Paradoxa Grass)	Υ	
843.		Poa annua (Winter Grass)	Υ	
844.		Poa drummondiana (Knotted Poa)	.,	
845.		Polypogon monspeliensis (Annual Beardgrass)	Υ	
846.		Rytidosperma occidentale		
847. 848.		Rytidosperma setaceum Setaria verticillata (Whorled Pigeon Grass)	Υ	
849.		Sorghum bicolor (Grain Sorghum)	Y	
850.		Sorghum halepense (Johnson Grass)	Y	
851.		Sorghum x drummondii (Sudan Grass)	Y	
852.		Sporobolus africanus (Parramatta Grass)	Y	
853.		Sporobolus virginicus (Marine Couch)	·	
854.		Triticum aestivum (Wheat)	Υ	
855.		Vulpia bromoides (Squirrel Tail Fescue)	Y	
856.		Vulpia myuros forma megalura	Υ	







Polygalaceae 858.		Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
555				Υ		7.1.00
855	Polygalacea	е				
1810. 4264 Conceptome Informate 1810.	858.	4550	Comesperma calymega (Blue-spike Milkwort)			
Polygonia	859.	4551	Comesperma ciliatum			
Polygonaceae	860.	4554	Comesperma flavum			
1863 1911 Pamelaria Opiniorina 1965 President metables 1965 President	861.	4564	Comesperma virgatum (Milkwort)			
1863 1911 Pamelaria Opiniorina 1965 President metables 1965 President	Polygonacea	ae				
861. 1951 Personatives descipeines			Muehlenbeckia polybotrya			
1985 1986 Projuganum andustes (Winewest) Y	863.					
Portulacacas	864.			Υ		
Potamogetonaceae	865.	2419	Polygonum aviculare (Wireweed)			
Pottiance	Portulacacea	ae				
Portitaceas	866.	16365	Calandrinia sp. Kenwick (G.J. Keighery 10905)			
Portitaceas	Determente					
Portiaceae	_		Potamogeton pectinatus (Fennel Pondweed)			
888	5		· , , , , , , , , , , , , , , , , , , ,			
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Proteacese	872.	6483	Samolus junceus			
1775	873.	6484	Samolus repens (Creeping Brookweed)			
1775	D==1=====					
875. 11837 Adenanthos Cygnorum subsp. cygnorum (Common Woollybush) 876. 1731 Adenanthos Obyraus (Basker Flower) 877. 30828 Banksia armate var, armate 878. 1800 Banksia attenusta (Slender Banksia) 878. 30576 Banksia dallanneyi var, dallanneyi 880. 32590 Banksia dallanneyi var, dallanneyi 881. 32577 Banksia dallanneyi var, dallanneyi 882. 1819 Banksia grands (Bull Banksia) 883. 1822 Banksia liicholia (Holy-leaved Banksia) 884. 1812 Banksia minica (Flowered Banksia) 885. 33399 Banksia incana var, incana 886. 1834 Banksia minica (Slummer Honeppot) 887. 32211 Banksia minica (Slummer Honeppot) 888. 32202 Banksia minica (Slummer Honeppot) 888. 32202 Banksia minica (Slummer Honeppot) 889. 3138 Banksia sessilis var, sessilis 890. 3200 Banksia sessilis var, sessilis 891. 1852 Banksia teinatiaca (Slummer Honeppot) 892. 1857 Conceperum acceptum (Medel-aeved Strokebush) 893. 18607 Conceperum acceptum (Medel-aeved Strokebush) 894. 1876 Conceperum acceptum (Medel-aeved Strokebush) 895. 16853 Conceperum acquitatum subsp. glabratum 896. 1876 Conceperum acceptum (Medel-aeved Strokebush) 897. 18520 Conceperum acquitatum subsp. glabratum 898. 1871 Conceperum acceptum (Medel-aeved Strokebush) 899. 1885 Conceperum acquitatum subsp. glabratum 890. 1896 Conceperum acquitatum subsp. glabratum 891. 1891 Conceperum acceptum (Medel-aeved Strokebush) 892. 1893 Conceperum acquitatum subsp. glabratum 893. 1894 Conceperum acceptum (Medel-aeved Strokebush) 894. 1896 Conceperum acceptum (Medel-aeved Strokebush) 895. 1896 Conceperum acceptum (Medel-aeved Strokebush) 896. 1897 Conceperum acceptum (Medel-aeved Strokebush) 897 (1896 Conceperum acceptum (Medel-aeved Strokebush) 898 (1897 Conceperum acceptum (Medel-aeved Strokebush) 899 (1896 Conceperum acceptum (Medel-aeved Strokebush) 890 (1896 Conceperum acceptum (Medel-aeved Strokebush) 891 (1896 Conceperum acceptum (Medel-aeved Strokebush) 892 (1896 Conceperum acceptum acceptum (Medel-aeved Strokebush) 899 (1896 Conceperum acceptum acceptum (Medel-aeved Strokebush) 890 (1896 Conceperum acceptum		1775	Adamantha a common (Camman Maallubush)			
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898. 15611 Conospermum stoechadis subsp. stoechadis (Common Smokebush) 899. 1885 Conospermum triplinervium (Tree Smokebush) 900. 13999 Conospermum undulatum T 901. 1964 Grevillea bipinnatifida (Fuchsia Grevillea) 902. 19628 Grevillea bipinnatifida subsp. bipinnatifida 903. 13429 Grevillea diversifolia subsp. diversifolia 904. 1997 Grevillea endlicheriana (Spindly Grevillea) 905. 13450 Grevillea manglesii subsp. manglesii 906. 2066 Grevillea pilulifera (Woolly-flowered Grevillea) 907. 2101 Grevillea synapheae (Catkin Grevillea) 908. 13439 Grevillea thelemanniana subsp. thelemanniana (Spider Net Grevillea) 909. 2119 Grevillea vestita 910. 2122 Grevillea wilsonii (Native Fuchsia) 911. 2137 Hakea ceratophylla (Horned Leaf Hakea) 912. 2143 Hakea ceratophylla (Horned Leaf Hakea) 914. 2166 Hakea incrassata (Marble Hakea) 915. 2175 Hakea lissocarpha (Honey Bush)	896.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
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900. 1399 Conospermu undulatum T 901. 1964 Grevillea bipinnatifida (Fuchsia Grevillea) 902. 19628 Grevillea bipinnatifida subsp. bipinnatifida 903. 13429 Grevillea diversifolia subsp. diversifolia 904. 1997 Grevillea endlicheriana (Spindly Grevillea) 905. 13450 Grevillea manglesii subsp. manglesii 906. 2066 Grevillea pilulifera (Woolly-flowered Grevillea) 907. 2101 Grevillea synapheae (Catkin Grevillea) 908. 13439 Grevillea thelemanniana subsp. thelemanniana (Spider Net Grevillea) 909. 2119 Grevillea vestita 910. 2122 Grevillea wilsonii (Native Fuchsia) 911. 2137 Hakea ceratophylla (Horned Leaf Hakea) 912. 2143 Hakea conchifolia (Shell-leaved Hakea) 914. 2166 Hakea incrassata (Marble Hakea) 915. 2175 Hakea lissocarpha (Honey Bush)	898.					
901. 1964 Grevillea bipinnatifida (Fuchsia Grevillea) 902. 19628 Grevillea bipinnatifida subsp. bipinnatifida 903. 13429 Grevillea diversifolia subsp. diversifolia 904. 1997 Grevillea endlicheriana (Spindly Grevillea) 905. 13450 Grevillea manglesii subsp. manglesii 906. 2066 Grevillea pilulifera (Woolly-flowered Grevillea) 907. 2101 Grevillea synapheae (Catkin Grevillea) 908. 13439 Grevillea thelemanniana subsp. thelemanniana (Spider Net Grevillea) 909. 2119 Grevillea vestita 910. 2122 Grevillea wilsonii (Native Fuchsia) 911. 2137 Hakea ceratophylla (Horned Leaf Hakea) 912. 2143 Hakea conchifolia (Shell-leaved Hakea) 913. 2158 Hakea erinacea (Hedge-hog Hakea) 914. 2166 Hakea incrassata (Marble Hakea) 915. 2175 Hakea lissocarpha (Honey Bush)	899.	1885	Conospermum triplinervium (Tree Smokebush)			
902. 19628 Grevillea bipinnatifida subsp. bipinnatifida 903. 13429 Grevillea diversifolia subsp. diversifolia 904. 1997 Grevillea endlicheriana (Spindly Grevillea) 905. 13450 Grevillea manglesii subsp. manglesii 906. 2066 Grevillea pilulifera (Woolly-flowered Grevillea) 907. 2101 Grevillea synapheae (Catkin Grevillea) 908. 13439 Grevillea thelemanniana subsp. thelemanniana (Spider Net Grevillea) 909. 2119 Grevillea vestita 910. 2122 Grevillea wilsonii (Native Fuchsia) 911. 2137 Hakea ceratophylla (Horned Leaf Hakea) 912. 2143 Hakea conchifolia (Shell-leaved Hakea) 913. 2158 Hakea erinacea (Hedge-hog Hakea) 914. 2166 Hakea incrassata (Marble Hakea) 915. 2175 Hakea lissocarpha (Honey Bush)	900.	13999	Conospermum undulatum		Т	
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905. 13450 Grevillea manglesii subsp. manglesii 906. 2066 Grevillea pilulifera (Woolly-flowered Grevillea) 907. 2101 Grevillea synapheae (Catkin Grevillea) 908. 13439 Grevillea thelemanniana subsp. thelemanniana (Spider Net Grevillea) 909. 2119 Grevillea vestita 910. 2122 Grevillea wilsonii (Native Fuchsia) 911. 2137 Hakea ceratophylla (Horned Leaf Hakea) 912. 2143 Hakea conchifolia (Shell-leaved Hakea) 913. 2158 Hakea erinacea (Hedge-hog Hakea) 914. 2166 Hakea incrassata (Marble Hakea) 915. 2175 Hakea lissocarpha (Honey Bush)	903.	13429	Grevillea diversifolia subsp. diversifolia			
906. 2066 Grevillea pilulifera (Woolly-flowered Grevillea) 907. 2101 Grevillea synapheae (Catkin Grevillea) 908. 13439 Grevillea thelemanniana subsp. thelemanniana (Spider Net Grevillea) 909. 2119 Grevillea vestita 910. 2122 Grevillea wilsonii (Native Fuchsia) 911. 2137 Hakea ceratophylla (Horned Leaf Hakea) 912. 2143 Hakea conchifolia (Shell-leaved Hakea) 913. 2158 Hakea erinacea (Hedge-hog Hakea) 914. 2166 Hakea incrassata (Marble Hakea) 915. 2175 Hakea lissocarpha (Honey Bush)	904.	1997	Grevillea endlicheriana (Spindly Grevillea)			
907. 2101 Grevillea synapheae (Catkin Grevillea) 908. 13439 Grevillea thelemanniana subsp. thelemanniana (Spider Net Grevillea) 909. 2119 Grevillea vestita 910. 2122 Grevillea wilsonii (Native Fuchsia) 911. 2137 Hakea ceratophylla (Horned Leaf Hakea) 912. 2143 Hakea conchifolia (Shell-leaved Hakea) 913. 2158 Hakea erinacea (Hedge-hog Hakea) 914. 2166 Hakea incrassata (Marble Hakea) 915. 2175 Hakea lissocarpha (Honey Bush)	905.	13450	Grevillea manglesii subsp. manglesii			
908. 13439 Grevillea thelemanniana subsp. thelemanniana (Spider Net Grevillea) 909. 2119 Grevillea vestita 910. 2122 Grevillea wilsonii (Native Fuchsia) 911. 2137 Hakea ceratophylla (Horned Leaf Hakea) 912. 2143 Hakea conchifolia (Shell-leaved Hakea) 913. 2158 Hakea erinacea (Hedge-hog Hakea) 914. 2166 Hakea incrassata (Marble Hakea) 915. 2175 Hakea lissocarpha (Honey Bush)	906.	2066	Grevillea pilulifera (Woolly-flowered Grevillea)			
909. 2119 Grevillea vestita 910. 2122 Grevillea wilsonii (Native Fuchsia) 911. 2137 Hakea ceratophylla (Horned Leaf Hakea) 912. 2143 Hakea conchifolia (Shell-leaved Hakea) 913. 2158 Hakea erinacea (Hedge-hog Hakea) 914. 2166 Hakea incrassata (Marble Hakea) 915. 2175 Hakea lissocarpha (Honey Bush)	907.	2101	Grevillea synapheae (Catkin Grevillea)			
910. 2122 Grevillea wilsonii (Native Fuchsia) 911. 2137 Hakea ceratophylla (Horned Leaf Hakea) 912. 2143 Hakea conchifolia (Shell-leaved Hakea) 913. 2158 Hakea erinacea (Hedge-hog Hakea) 914. 2166 Hakea incrassata (Marble Hakea) 915. 2175 Hakea lissocarpha (Honey Bush)	908.	13439	Grevillea thelemanniana subsp. thelemanniana (Spider Net Grevillea)		P4	
911. 2137 Hakea ceratophylla (Horned Leaf Hakea) 912. 2143 Hakea conchifolia (Shell-leaved Hakea) 913. 2158 Hakea erinacea (Hedge-hog Hakea) 914. 2166 Hakea incrassata (Marble Hakea) 915. 2175 Hakea lissocarpha (Honey Bush)	909.	2119	Grevillea vestita			
912. 2143 Hakea conchifolia (Shell-leaved Hakea) 913. 2158 Hakea erinacea (Hedge-hog Hakea) 914. 2166 Hakea incrassata (Marble Hakea) 915. 2175 Hakea lissocarpha (Honey Bush)	910.	2122	Grevillea wilsonii (Native Fuchsia)			
913. 2158 Hakea erinacea (Hedge-hog Hakea) 914. 2166 Hakea incrassata (Marble Hakea) 915. 2175 Hakea lissocarpha (Honey Bush)	911.	2137	Hakea ceratophylla (Horned Leaf Hakea)			
914. 2166 Hakea incrassata (Marble Hakea) 915. 2175 Hakea lissocarpha (Honey Bush)	912.	2143	Hakea conchifolia (Shell-leaved Hakea)			
915. 2175 Hakea lissocarpha (Honey Bush)	913.	2158	Hakea erinacea (Hedge-hog Hakea)			
	914.	2166	Hakea incrassata (Marble Hakea)			
916. 2185 Hakea myrtoides (Myrtle Hakea)	915.	2175	Hakea lissocarpha (Honey Bush)			
	916.	2185	Hakea myrtoides (Myrtle Hakea)			







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
917.	2197	Hakea prostrata (Harsh Hakea)			
918.	2203	Hakea ruscifolia (Candle Hakea)			
919.	31793	Hakea sp. Eastern coastal plain (G.J. Keighery 8014)			
920.	12234	Hakea spathulata			
921.	2206	Hakea stenocarpa (Narrow-fruited Hakea)			
922.	2212	Hakea sulcata (Furrowed Hakea)			
923.	2214	Hakea trifurcata (Two-leaf Hakea)			
924.	2215	Hakea undulata (Wavy-leaved Hakea)			
925.	2216	Hakea varia (Variable-leaved Hakea)			
926.	2221	Isopogon asper			
927.	2228	Isopogon drummondii		P3	
928.	2229	Isopogon dubius (Pincushion Coneflower)			
929.	2249	Lambertia multiflora (Many-flowered Honeysuckle)			
930.	14083	Lambertia multiflora var. darlingensis			
931.	2255	Persoonia angustiflora			
932.	2262	Persoonia elliptica (Spreading Snottygobble)			
933.	2273	Persoonia saccata (Snottygobble)			
934.	2284	Petrophile biloba (Granite Petrophile)			
935.	2299	Petrophile linearis (Pixie Mops)			
936.	2301	Petrophile macrostachya			
937.	2306	Petrophile rigida			
938.	2308	Petrophile seminuda			
939.	20053	Petrophile squamata subsp. northern (J. Monks 40)			
940.	2312	Petrophile striata			
941.	2316	Stirlingia latifolia (Blueboy)			
942.	2321	Synaphea acutiloba (Granite Synaphea)			
943.	2323	Synaphea gracillima			
944.	16864	Synaphea petiolaris subsp. petiolaris			
945.	2325	Synaphea pinnata (Helena Synaphea)			
946.	2329	Synaphea spinulosa			
947.	15532	Synaphea spinulosa subsp. spinulosa			
948.	2331	Xylomelum occidentale (Woody Pear)			
Pteridaceae					
949.		Anogramma leptophylla (Annual Fern)			
950.		Cheilanthes austrotenuifolia			
Ranunculac					
951.		Clematis pubescens (Common Clematis)			
952.		Ranunculus muricatus (Sharp Buttercup)	Y		
953.	2938	Ranunculus trilobus (Buttercup)	Υ		
Restionacea	ie				
954.		Alexgeorgea nitens			
955.	17706	Chordifex sinuosus			
956.	17692	Cytogonidium leptocarpoides			
957.	17663	Desmocladus asper			
958.	17691	Desmocladus fasciculatus			
959.	17838	Dielsia stenostachya			
960.		Empodisma gracillimum			
961.		Hypolaena exsulca			
962.	17841	Hypolaena pubescens			
963.		Lepidobolus preissianus			
964.	18074	Lepidobolus preissianus subsp. preissianus			
965.	19833	Leptocarpus laxus			
966.		Lepyrodia curvescens		P2	
967.	1088	Lepyrodia macra (Large Scale Rush)			
968.		Lepyrodia muirii			
969.		Lepyrodia riparia			
970.		Loxocarya striata			
971.	17679	Meeboldina coangustata			
972.		Meeboldina roycei			
973.	17694	Meeboldina scariosa			
974.	17843	Meeboldina tephrina			
Dhamnasa					
Rhamnacea		Countandra arbutiflara yar arbutiflara			
975. 976		Cryptandra arbutiflora var. arbutiflora			
976.		Cryptandra scoparia Stopenthomy m emerginet um			
977.		Stenanthemum emarginatum Stenanthemum humila			
978. 979.		Stenanthemum humile Trymalium ledifolium var. rosmarinifolium			
979. 980.		Trymalium lediloilum var. rosmariniloilum Trymalium odoratissimum subsp. odoratissimum			
900.	33410	Trythalium odoraussimum subsp. odoraussimum			
				Department	******







		Species Name	Naturalised	Conservation Code ¹ Endemic To G Area
Rosaceae				
981.	10931	Rosa chinensis x moschata	Υ	
982.	20496	Rubus laudatus	Υ	
Rubiaceae				
983.	18255	Opercularia vaginata (Dog Weed)		
taaaaa				
Rutaceae 984.	4414	Boronia cymosa (Granite Boronia)		
985.		Boronia cymosa (Granite Boronia)		
986.		Boronia ramosa		
987.		Boronia ramosa subsp. anethifolia		
988.		Philotheca spicata (Pepper and Salt)		
		· · · · · · · · · · · · · · · · · · ·		
Salicaceae				
989.		Salix babylonica	Y	
990.	31594	Salix cinerea	Υ	Υ
alviniaceae	•			
991.	80	Azolla filiculoides (Pacific Azolla)		
antalaceae	0044	Landana aria anno alatta mata		
992.	2344	Leptomeria empetriformis		
chizaeacea	е			
993.	24	Schizaea fistulosa (Narrow Comb Fern)		
crophularia				
Scrophularia		Dischisma arenarium	V	
994. 995.		Dischisma arenanum Dischisma capitatum (Woolly-headed Dischisma)	Y	
996.		· · · · · · · · · · · · · · · · · · ·	Y	
990.	13403	Phyllopodium cordatum	Ť	
Selaginellac	eae			
997.	6	Selaginella gracillima (Tiny Clubmoss)		
Comptonbyll	20020			
Sematophyll 998.		Sematophyllum homomallum		
990.	32433	Sematophylium nomomalium		
Solanaceae				
999.	10823	Datura inoxia	Υ	
1000.	10900	Lycopersicon esculentum	Υ	
1000. 1001.		Lycopersicon esculentum Nicandra physalodes (Apple of Peru)	Y Y	
	6970			
1001.	6970 6974	Nicandra physalodes (Apple of Peru)	Υ	
1001. 1002.	6970 6974 6983	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco)	Y	
1001. 1002. 1003.	6970 6974 6983 6988	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry)	Y Y Y	Y
1001. 1002. 1003. 1004.	6970 6974 6983 6988 11114	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade)	Y Y Y	Y
1001. 1002. 1003. 1004. 1005.	6970 6974 6983 6988 11114 7017	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum	Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006.	6970 6974 6983 6988 11114 7017 7022	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple)	Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008.	6970 6974 6983 6988 11114 7017 7022	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade)	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae	6970 6974 6983 6988 11114 7017 7022 7035	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade)	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009.	6970 6974 6983 6988 11114 7017 7022 7035	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade)	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010.	6970 6974 6983 6988 11114 7017 7022 7035	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort)	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia stipitata (Common Stylewort)	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011. 1012.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7677	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts)	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011. 1012. 1013.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7677 7679	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium affine (Queen Triggerplant)	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011. 1012. 1013. 1014.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7677 7681 30278	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium androsaceum	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011. 1012. 1013. 1014. 1015.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7677 7681 30278 25831	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia preissii (Preiss's Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium androsaceum Stylidium araeophyllum	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7677 7681 30278 25831 30276	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium androsaceum Stylidium araeophyllum Stylidium bicolor	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016. 1017.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7677 7681 30278 25831 30276 7693	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia preissii (Preiss's Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium androsaceum Stylidium araeophyllum	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016. 1017. 1018.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7677 7681 30278 25831 30276 7693	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium affine (Queen Triggerplant) Stylidium araeophyllum Stylidium bicolor Stylidium brunonianum (Pink Fountain Triggerplant) Stylidium carnosum (Fleshy-leaved Triggerplant)	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016. 1017.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7677 7681 30278 25831 30276 7693 7699 7710	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium affine (Queen Triggerplant) Stylidium araeophyllum Stylidium bicolor Stylidium brunonianum (Pink Fountain Triggerplant) Stylidium carnosum (Fleshy-leaved Triggerplant) Stylidium cygnorum	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016. 1017. 1018. 1019.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7677 7681 30278 25831 30276 7693 7699 7710	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium affine (Queen Triggerplant) Stylidium araeophyllum Stylidium bicolor Stylidium brunonianum (Pink Fountain Triggerplant) Stylidium carnosum (Fleshy-leaved Triggerplant) Stylidium cygnorum Stylidium dichotomum (Pins-and-needles)	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Etylidiaceae 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016. 1017. 1018. 1019. 1020.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7679 7681 30278 25831 30276 7693 7699 7710 7713	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium affine (Queen Triggerplant) Stylidium araeophyllum Stylidium araeophyllum Stylidium bicolor Stylidium brunonianum (Pink Fountain Triggerplant) Stylidium carnosum (Fleshy-leaved Triggerplant) Stylidium cygnorum Stylidium dichotomum (Pins-and-needles) Stylidium diuroides (Donkey Triggerplant)	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1011. 1012. 1013. 1014. 1015. 1016. 1017. 1018. 1019. 1020. 1021.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7681 30278 25831 30276 7693 7699 7710 7713 7716 11808	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium affine (Queen Triggerplant) Stylidium araeophyllum Stylidium bicolor Stylidium brunonianum (Pink Fountain Triggerplant) Stylidium carnosum (Fleshy-leaved Triggerplant) Stylidium cygnorum Stylidium dichotomum (Pins-and-needles)	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016. 1017. 1018. 1019. 1020. 1021. 1022.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7681 30278 25831 30276 7693 7710 7713 7716 11808 7717	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium affine (Queen Triggerplant) Stylidium araeophyllum Stylidium araeophyllum Stylidium bicolor Stylidium brunonianum (Pink Fountain Triggerplant) Stylidium carnosum (Fleshy-leaved Triggerplant) Stylidium cygnorum Stylidium dichotomum (Pins-and-needles) Stylidium diuroides (Donkey Triggerplant) Stylidium diuroides subsp. diuroides Stylidium divaricatum (Daddy-long-legs)	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016. 1017. 1018. 1019. 1020. 1021. 1022. 1023.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7679 7681 30278 25831 30276 7693 7710 7713 7716 11808 7717	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia preissii (Nidget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium affine (Queen Triggerplant) Stylidium araeophyllum Stylidium araeophyllum Stylidium bicolor Stylidium brunonianum (Pink Fountain Triggerplant) Stylidium carnosum (Fleshy-leaved Triggerplant) Stylidium cygnorum Stylidium dichotomum (Pins-and-needles) Stylidium diuroides (Donkey Triggerplant) Stylidium diuroides subsp. diuroides	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016. 1017. 1018. 1019. 1020. 1021. 1022. 1023. 1024.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7679 7681 30278 25831 30276 7693 7710 7713 7716 11808 7717 7734 25801	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium affine (Queen Triggerplant) Stylidium araeophyllum Stylidium araeophyllum Stylidium bicolor Stylidium brunonianum (Pink Fountain Triggerplant) Stylidium carnosum (Fleshy-leaved Triggerplant) Stylidium cygnorum Stylidium dichotomum (Pins-and-needles) Stylidium diuroides (Donkey Triggerplant) Stylidium diuroides subsp. diuroides Stylidium guttatum (Daddy-long-legs) Stylidium guttatum (Dotted Triggerplant)	Y Y Y Y Y Y	Y
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016. 1017. 1018. 1019. 1020. 1021. 1022. 1023. 1024. 1025.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7681 30278 25831 30276 7693 7710 7713 7716 11808 7717 7734 25801 7736	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium affine (Queen Triggerplant) Stylidium araeophyllum Stylidium araeophyllum Stylidium bicolor Stylidium brunonianum (Pink Fountain Triggerplant) Stylidium carnosum (Fleshy-leaved Triggerplant) Stylidium cygnorum Stylidium dichotomum (Pins-and-needles) Stylidium diuroides (Donkey Triggerplant) Stylidium divaricatum (Daddy-long-legs) Stylidium guttatum (Dotted Triggerplant) Stylidium hispidum (White Butterfly Triggerplant)	Y Y Y Y Y Y	
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016. 1017. 1018. 1019. 1020. 1021. 1022. 1023. 1024. 1025. 1026.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7681 30278 25831 30276 7693 7710 7713 7716 11808 7717 7734 25801 7736 7756	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium affine (Queen Triggerplant) Stylidium araeophyllum Stylidium araeophyllum Stylidium bicolor Stylidium brunonianum (Pink Fountain Triggerplant) Stylidium carnosum (Fleshy-leaved Triggerplant) Stylidium cygnorum Stylidium dichotomum (Pins-and-needles) Stylidium diuroides (Donkey Triggerplant) Stylidium divaricatum (Daddy-long-legs) Stylidium guttatum (Dotted Triggerplant) Stylidium hispidum (White Butterfly Triggerplant) Stylidium longitubum (Jumping Jacks)	Y Y Y Y Y Y	Р3
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016. 1017. 1018. 1019. 1020. 1021. 1022. 1023. 1024. 1025. 1026. 1027.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7681 30278 25831 30276 7693 7710 7713 7716 11808 7717 7734 25801 7736 25829	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium affine (Queen Triggerplant) Stylidium araeophyllum Stylidium araeophyllum Stylidium bicolor Stylidium brunonianum (Pink Fountain Triggerplant) Stylidium carnosum (Fleshy-leaved Triggerplant) Stylidium cygnorum Stylidium dichotomum (Pins-and-needles) Stylidium diuroides (Donkey Triggerplant) Stylidium divaricatum (Daddy-long-legs) Stylidium guttatum (Dotted Triggerplant) Stylidium hispidum (White Butterfly Triggerplant) Stylidium longitubum (Jumping Jacks) Stylidium neurophyllum	Y Y Y Y Y Y	
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1011. 1012. 1013. 1014. 1015. 1016. 1017. 1018. 1019. 1020. 1021. 1022. 1023. 1024. 1025. 1026. 1027. 1028. 1029.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7677 7681 30278 25831 30276 7699 7710 7713 7716 11808 7717 7734 25801 7736 7756 25829 7768	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium affine (Queen Triggerplant) Stylidium araeophyllum Stylidium araeophyllum Stylidium bicolor Stylidium bicolor Stylidium carnosum (Pink Fountain Triggerplant) Stylidium carnosum (Fleshy-leaved Triggerplant) Stylidium dichotomum (Pins-and-needles) Stylidium diuroides (Donkey Triggerplant) Stylidium divaricatum (Daddy-long-legs) Stylidium guttatum (Datdet Triggerplant) Stylidium hispidum (White Butterfly Triggerplant) Stylidium longitubum (Jumping Jacks) Stylidium neurophyllum Stylidium neurophyllum	Y Y Y Y Y Y	
1001. 1002. 1003. 1004. 1005. 1006. 1007. 1008. Stylidiaceae 1009. 1010. 1011. 1012. 1013. 1014. 1015. 1016. 1017. 1018. 1019. 1020. 1021. 1022. 1023. 1024. 1025. 1026. 1027. 1028.	6970 6974 6983 6988 11114 7017 7022 7035 7674 7676 7677 7681 30278 25831 30276 7699 7710 7713 7716 11808 7717 7734 25801 7736 25829 7768	Nicandra physalodes (Apple of Peru) Nicotiana glauca (Tree Tobacco) Physalis peruviana (Cape Gooseberry) Solanum americanum (Glossy Nightshade) Solanum giganteum Solanum laciniatum (Kangaroo Apple) Solanum nigrum (Black Berry Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Solanum sisymbriifolium (Viscid Nightshade) Levenhookia preissii (Preiss's Stylewort) Levenhookia pusilla (Midget Stylewort) Levenhookia stipitata (Common Stylewort) Stylidium adpressum (Trigger-on-stilts) Stylidium affine (Queen Triggerplant) Stylidium araeophyllum Stylidium araeophyllum Stylidium bicolor Stylidium brunonianum (Pink Fountain Triggerplant) Stylidium carnosum (Fleshy-leaved Triggerplant) Stylidium cygnorum Stylidium dichotomum (Pins-and-needles) Stylidium diuroides (Donkey Triggerplant) Stylidium divaricatum (Daddy-long-legs) Stylidium guttatum (Dotted Triggerplant) Stylidium hispidum (White Butterfly Triggerplant) Stylidium longitubum (Jumping Jacks) Stylidium neurophyllum	Y Y Y Y Y Y	







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
1033.	7785	Stylidium repens (Matted Triggerplant)			
1034.	7790	Stylidium roseoalatum (Pink-wing Triggerplant)			
1035.	7798	Stylidium schoenoides (Cow Kicks)			
1036.	17992	Stylidium sp. Bindoon (K.F. Kenneally 11405)			
1037.	25830	Stylidium sp. Darling Range (H. Bowler 371)			
1038.	7803	Stylidium striatum (Fan-leaved Triggerplant)		P4	
1039.	23511	Stylidium thesioides (Delicate Triggerplant)			
1040.	7806	Stylidium utricularioides (Pink Fan Triggerplant)			
1041.	40947	Stylidium xanthellum			
Tecophilaea	ceae				
1042.	1487	Cyanella hyacinthoides	Υ		
Thymelaeace	eae				
1043.	5231	Pimelea angustifolia (Narrow-leaved Pimelea)			
1044.	5232	Pimelea argentea (Silvery Leaved Pimelea)			
1045.	11928	Pimelea ciliata subsp. ciliata			
1046.	11402	Pimelea imbricata var. piligera			
1047.	12041	Pimelea suaveolens subsp. suaveolens (Tall Mulla Mulla)			
1048.	5268	Pimelea sulphurea (Yellow Banjine)			
Tropaeolace	ae				
1049.		Tropaeolum majus (Garden Nasturtium)	Υ		
Typhaceae 1050.	99	Typha orientalis (Bulrush)	Y		
Verbenaceae	•				
1051.	6733	Lantana camara (Common Lantana)	Υ		
1052.	17022	Lantana camara var. camara	Υ		
Violaceae					
1053.	5216	Hybanthus calycinus (Wild Violet)			
Xanthorrhoe	aceae				
1054.	1252	Xanthorrhoea drummondii			
1055.	1256	Xanthorrhoea preissii (Grass tree)			
Zamiaceae					
1056.	85	Macrozamia riedlei (Zamia)			

Conservation Codes

T. Rare or likely to become extinct

Prosumes extinct to become extinct

A. Prosume during international agreement

S. Other specially protected fauna

1. Priority

2. Priority

3. Priority

4. Priority

5. Priority

5. Priority

6. Priority

7. Priority

7. Priority

8. Priority

9. Priority

1. Priority

1.

¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholely contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.







NatureMap Fauna Species Report 5 km

Created By Guest user on 28/11/2012

Kingdom Animalia **Current Names Only** Yes Core Datasets Only Yes Method 'By Line' Group By Family

Family	Species	Record
Acanthizidae	6	35
Accipitridae	9	16
Agamidae	3	3
Anatidae	14	265
Anhingidae Apodidae	1	
Apodidae Ardeidae	9	10
Artamidae	2	10
Boidae	2	
Burhinidae	1	
Campephagidae	2	43
Canidae	1	
Carphodactylidae	1	
Charadriidae	2	_
Cheluidae	2	2
Columbidae	6	159
Corvidae	1 5	81 78
Cracticidae Cuculidae	5 4	70
Dasyuridae Dasyuridae	2	1
Dicaeidae	1	8
Dicruridae	2	179
Diplodactylidae	4	1
Elapidae	13	34
Equidae	1	
- strilidae	1	
alconidae	8	17
Felidae	1	
ringillidae	2	1
Gekkonidae	3	1
Halcyonidae	4	26
firundinidae	2	50
Hylidae	2	2
.aridae	3	
.imnodynastidae Macropodidae	4 3	14
Maluridae	3	7
Meliphaqidae	10	247
Meropidae	1	11
Molossidae	1	
Muridae	3	1
Myobatrachidae	5	9
Myrmecobiidae	1	
Veosittidae	2	
Pachycephalidae	5	15
Pardalotidae	2	30
Pelecanidae	1	36
Peramelidae	1	4
Petroicidae	2	-
Phalacrocoracidae	4 1	54
Phalangeridae Phasianidae	1	
Podarqidae	2	
Podicipedidae	5	52
Procellariidae	4	32
Psittacidae	22	100
Pygopodidae	7	14
Rallidae	11	150
Recurvirostridae	2	11
Scincidae	17	13
Sciuridae	1	
Scolopacidae	5	6
Strigidae	3	2
Sturnidae	1	
Suidae	1	
Sylviidae	2	40
achyglossidae arsipedidae	1 1	
arsipedidae ⁻ hreskiornithidae	3	68
nreskiornitnidae Turnicidae	3 1	66
Typhlopidae	5	2
ypniopidae Tytonidae	1	2
	2	
/aranidae /espertilionidae	3	
/aranidae		35





Name ID Species Name Naturalised Conservation Code ¹Endemic To Query Acanthizidae 24260 Acanthiza apicalis (Broad-tailed Thornbill) 1. 2. 24261 Acanthiza chrysorrhoa (Yellow-rumped Thornbill) 3. 24262 Acanthiza inornata (Western Thornbill) 25530 Gerygone fusca (Western Gerygone) 5. 25534 Sericornis frontalis (White-browed Scrubwren) 30948 Smicrornis brevirostris (Weebill) 6. Accipitridae 25535 Accipiter cirrocephalus (Collared Sparrowhawk) 7. 8. 24281 Accipiter cirrocephalus subsp. cirrocephalus 25536 Accipiter fasciatus (Brown Goshawk) 9. 24282 Accipiter fasciatus subsp. fasciatus 11. 24285 Aquila audax (Wedge-tailed Eagle) 12. 24286 Aquila morphnoides subsp. morphnoides 13. 24288 Circus approximans (Swamp Harrier) 24290 Elanus caeruleus subsp. axillaris (Australian Black-shouldered Kite) 14. 15. 24295 Haliastur sphenurus (Whistling Kite) Agamidae 16. 30899 Ctenophorus adelaidensis (Southern Heath Dragons) 17. 24883 Ctenophorus ornatus (Ornate Crevice Dragon) 18. 24907 Pogona minor subsp. minor Anatidae 19. 24310 Anas castanea (Chestnut Teal) 20. 24312 Anas gracilis (Grey Teal) 21. 24313 Anas platyrhynchos (Mallard) 24315 Anas rhynchotis (Australasian Shoveler) 22. 23. 24316 Anas superciliosa (Pacific Black Duck) 24. 24318 Aythya australis (Hardhead) 25. 24319 Biziura lobata (Musk Duck) 24321 Chenonetta jubata (Australian Wood Duck) 26 27. 24322 Cygnus atratus (Black Swan) 28 24325 Dendrocygna eytoni (Plumed Whistling Duck) 29. 24326 Malacorhynchus membranaceus (Pink-eared Duck) 24328 Oxyura australis (Blue-billed Duck) 30 31. 24329 Stictonetta naevosa (Freckled Duck) 24331 Tadorna tadornoides (Australian Shelduck) 32. **Anhingidae** 33. 24332 Anhinga melanogaster subsp. novaehollandiae **Apodidae** 34. 25554 Apus pacificus (Fork-tailed Swift) IΑ Ardeidae 35. 24336 Ardea alba subsp. modesta (Eastern Great Egret) IA 36 25558 Ardea ibis (Cattle Egret) IΑ 37. 24340 Ardea novaehollandiae (White-faced Heron) 24341 Ardea pacifica (White-necked Heron) 38. 24345 Botaurus poiciloptilus (Australasian Bittern) 39. Т 40 24347 Ixobrychus flavicollis subsp. australis (Australian Black Bittern) P3 41. 24348 Ixobrychus minutus subsp. dubius (Australian Little Bittern) 42. 25564 Nycticorax caledonicus (Rufous Night Heron) 43. 24350 Nycticorax caledonicus subsp. hilli **Artamidae** 25566 Artamus cinereus (Black-faced Woodswallow) 44. 45. 24352 Artamus cinereus subsp. melanops **Boidae** 46 25241 Antaresia stimsoni subsp. stimsoni 47. 25240 Morelia spilota subsp. imbricata (Carpet Python) Burhinidae 24359 Burhinus grallarius (Bush Stone-curlew) P4 Campephagidae 49. 25568 Coracina novaehollandiae (Black-faced Cuckoo-shrike) 50. 24367 Lalage tricolor (White-winged Triller) Canidae







		Species Name Naturali	sed Conservation Code ¹ E	indemic To Query Area
51.		Vulpes vulpes (Red Fox)		
Carphodac	-			
52.	30941	Nephrurus milii (Barking Gecko)		
Charadriida	-			
53.		Charadrius ruficapillus (Red-capped Plover)		
54.	24379	Erythrogonys cinctus (Red-kneed Dotterel)		
Cheluidae				
55.		Chelodina oblonga (Oblong Turtle)		
56.	25345	Pseudemydura umbrina (Western Swamp Turtle, tortoise)	Т	
Columbidae	•			
57.		Columba livia (Domestic Pigeon)		
58. 59.		Ocyphaps lophotes (Crested Pigeon) Phaps chalcoptera (Common Bronzewing)		
60.		Streptopelia chinensis (Spotted Turtle-Dove)		
61.		Streptopelia chinensis subsp. tigrina		
62.		Streptopelia senegalensis (Laughing Turtle-Dove)		
Corvidae				
63.	25592	Corvus coronoides (Australian Raven)		
Crootioidoo		, , , , , , , , , , , , , , , , , , , ,		
Cracticidae 64.	24420	Cracticus nigrogularis (Pied Butcherbird)		
65.		Cracticus tibicen (Australian Magpie)		
66.		Cracticus tibicen subsp. dorsalis (White-backed Magpie)		
67.	25596	Cracticus torquatus (Grey Butcherbird)		
68.	25597	Strepera versicolor (Grey Currawong)		
Cuculidae				
69.	25598	Cacomantis flabelliformis (Fan-tailed Cuckoo)		
70.		Chrysococcyx basalis (Horsfield's Bronze Cuckoo)		
71.		Chrysococcyx lucidus subsp. plagosus		
72.	24435	Cuculus pallidus (Pallid Cuckoo)		
Dasyuridae				
73.		Dasyurus geoffroii (Chuditch, Western Quoll)	Т	
74.	24099	Phascogale tapoatafa subsp. tapoatafa (Southern Brush-tailed Phascogale, Wambenger)	Т	
		Trainbongs/		
Dicaeidae 75.	25607	Discours his undine cours (Michalachird)		
75.	25607	Dicaeum hirundinaceum (Mistletoebird)		
Dicruridae				
76.				
77		Grallina cyanoleuca (Magpie-lark)		
77.	25614	Grailina cyanoleuca (Magpie-iark) Rhipidura leucophrys (Willie Wagtail)		
Diplodactyl	25614 idae	Rhipidura leucophrys (Willie Wagtail)		
Diplodactyl 78.	25614 idae 24939	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus		
Diplodactyl 78. 79.	25614 idae 24939 24940	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher		
Diplodactyl 78.	25614 idae 24939 24940 24943	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus		
78. 79. 80. 81.	25614 idae 24939 24940 24943	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus		
78. 79. 80. 81. Elapidae	25614 idae 24939 24940 24943 24942	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus		
78. 79. 80. 81.	25614 idae 24939 24940 24943 24942 25333	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus Brachyurophis fasciolata subsp. fasciolata		
78. 79. 80. 81. Elapidae 82.	25614 idae 24939 24940 24943 24942 25333 25245	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus		
78. 79. 80. 81. Elapidae 82. 83.	25614 idae 24939 24940 24943 24942 25333 25245 25251	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus Brachyurophis fasciolata subsp. fasciolata Brachyurophis semifasciata		
78. 79. 80. 81. Elapidae 82. 83. 84. 85.	25614 idae 24939 24940 24943 24942 25333 25245 25251 25250 25248	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus Brachyurophis fasciolata subsp. fasciolata Brachyurophis semifasciata Echiopsis curta (Bardick) Elapognathus coronatus (Crowned Snake) Neelaps bimaculatus (Black-naped Snake)		
78. 79. 80. 81. Elapidae 82. 83. 84. 85. 86.	25614 idae 24939 24940 24943 24942 25333 25245 25251 25250 25248 25249	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus Brachyurophis fasciolata subsp. fasciolata Brachyurophis semifasciata Echiopsis curta (Bardick) Elapognathus coronatus (Crowned Snake) Neelaps bimaculatus (Black-naped Snake) Neelaps calonotos (Black-striped Snake)	P3	
78. 79. 80. 81. Elapidae 82. 83. 84. 85. 86. 87. 88.	25614 idae 24939 24940 24943 24942 25333 25245 25251 25250 25248 25249 25252	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus Brachyurophis fasciolata subsp. fasciolata Brachyurophis semifasciata Echiopsis curta (Bardick) Elapognathus coronatus (Crowned Snake) Neelaps bimaculatus (Black-naped Snake) Neelaps calonotos (Black-striped Snake) Notechis scutatus (Tiger Snake)	P3	
78. 79. 80. 81. Elapidae 82. 83. 84. 85. 86. 87. 88.	25614 idae 24939 24940 24943 24942 25333 25245 25251 25250 25248 25249 25252 25253	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus Brachyurophis fasciolata subsp. fasciolata Brachyurophis semifasciata Echiopsis curta (Bardick) Elapognathus coronatus (Crowned Snake) Neelaps bimaculatus (Black-naped Snake) Neelaps calonotos (Black-striped Snake) Notechis scutatus (Tiger Snake) Parasuta gouldii	P3	
78. 79. 80. 81. Elapidae 82. 83. 84. 85. 86. 87. 88.	25614 idae 24939 24940 24943 24942 25333 25245 25251 25250 25248 25249 25252 25253 25261	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus Brachyurophis fasciolata subsp. fasciolata Brachyurophis semifasciata Echiopsis curta (Bardick) Elapognathus coronatus (Crowned Snake) Neelaps bimaculatus (Black-naped Snake) Neelaps calonotos (Black-striped Snake) Notechis scutatus (Tiger Snake)	P3	
78. 79. 80. 81. Elapidae 82. 83. 84. 85. 86. 87. 88. 89. 90.	25614 idae 24939 24940 24943 24942 25333 25245 25251 25250 25248 25249 25252 25253 25261 25511	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus Brachyurophis fasciolata subsp. fasciolata Brachyurophis semifasciata Echiopsis curta (Bardick) Elapognathus coronatus (Crowned Snake) Neelaps bimaculatus (Black-naped Snake) Neelaps calonotos (Black-striped Snake) Notechis scutatus (Tiger Snake) Parasuta gouldii Pseudechis australis (Mulga Snake)	P3	
78. 79. 80. 81. Elapidae 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93.	25614 idae 24939 24940 24943 24942 25333 25245 25251 25250 25248 25249 25252 25253 25261 25511 25259 25264	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus Brachyurophis fasciolata subsp. fasciolata Brachyurophis semifasciata Echiopsis curta (Bardick) Elapognathus coronatus (Crowned Snake) Neelaps bimaculatus (Black-naped Snake) Neelaps calonotos (Black-striped Snake) Notechis scutatus (Tiger Snake) Parasuta gouldii Pseudechis australis (Mulga Snake) Pseudonaja affinis (Dugite) Pseudonaja affinis subsp. affinis (Dugite) Pseudonaja nuchalis (Gwardar)	P3	
78. 79. 80. 81. Elapidae 82. 83. 84. 85. 86. 87. 88. 89. 90. 91.	25614 idae 24939 24940 24943 24942 25333 25245 25251 25250 25248 25249 25252 25253 25261 25511 25259 25264	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus Brachyurophis fasciolata subsp. fasciolata Brachyurophis semifasciata Echiopsis curta (Bardick) Elapognathus coronatus (Crowned Snake) Neelaps bimaculatus (Black-naped Snake) Neelaps calonotos (Black-striped Snake) Notechis scutatus (Tiger Snake) Parasuta gouldii Pseudechis australis (Mulga Snake) Pseudonaja affinis (Dugite) Pseudonaja affinis subsp. affinis (Dugite)	P3	
78. 79. 80. 81. Elapidae 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94.	25614 idae 24939 24940 24943 24942 25333 25245 25251 25250 25248 25249 25252 25253 25261 25511 25259 25264	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus Brachyurophis fasciolata subsp. fasciolata Brachyurophis semifasciata Echiopsis curta (Bardick) Elapognathus coronatus (Crowned Snake) Neelaps bimaculatus (Black-naped Snake) Neelaps calonotos (Black-striped Snake) Notechis scutatus (Tiger Snake) Parasuta gouldii Pseudechis australis (Mulga Snake) Pseudonaja affinis (Dugite) Pseudonaja affinis subsp. affinis (Dugite) Pseudonaja nuchalis (Gwardar)	P3	
78. 79. 80. 81. Elapidae 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92.	25614 idae 24939 24940 24943 24942 25333 25245 25251 25250 25248 25249 25252 25253 25261 25511 25259 25264 25266	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus Brachyurophis fasciolata subsp. fasciolata Brachyurophis semifasciata Echiopsis curta (Bardick) Elapognathus coronatus (Crowned Snake) Neelaps bimaculatus (Black-naped Snake) Neelaps calonotos (Black-striped Snake) Notechis scutatus (Tiger Snake) Parasuta gouldii Pseudechis australis (Mulga Snake) Pseudonaja affinis (Dugite) Pseudonaja affinis subsp. affinis (Dugite) Pseudonaja nuchalis (Gwardar)	P3	
78. 79. 80. 81. Elapidae 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. Equidae	25614 idae 24939 24940 24943 24942 25333 25245 25251 25250 25248 25249 25252 25253 25261 25511 25259 25264 25266	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus Brachyurophis fasciolata subsp. fasciolata Brachyurophis semifasciata Echiopsis curta (Bardick) Elapognathus coronatus (Crowned Snake) Neelaps bimaculatus (Black-naped Snake) Neelaps calonotos (Black-striped Snake) Notechis scutatus (Tiger Snake) Parasuta gouldii Pseudonaja affinis (Dugite) Pseudonaja affinis subsp. affinis (Dugite) Pseudonaja nuchalis (Gwardar) Simoselaps bertholdi (Jan's Banded Snake)	P3	
78. 79. 80. 81. Elapidae 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. Equidae 95.	25614 idae 24939 24940 24943 24942 25333 25245 25251 25250 25248 25249 25252 25253 25261 25511 25259 25264 25266 24258	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus Brachyurophis fasciolata subsp. fasciolata Brachyurophis semifasciata Echiopsis curta (Bardick) Elapognathus coronatus (Crowned Snake) Neelaps bimaculatus (Black-naped Snake) Neelaps calonotos (Black-striped Snake) Notechis scutatus (Tiger Snake) Parasuta gouldii Pseudonaja affinis (Dugite) Pseudonaja affinis subsp. affinis (Dugite) Pseudonaja nuchalis (Gwardar) Simoselaps bertholdi (Jan's Banded Snake)	P3	
78. 79. 80. 81. Elapidae 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. Equidae 95. Estrilidae	25614 idae 24939 24940 24943 24942 25333 25245 25251 25250 25248 25249 25252 25253 25261 25511 25259 25264 25266 24258	Rhipidura leucophrys (Willie Wagtail) Diplodactylus polyophthalmus Diplodactylus pulcher Strophurus spinigerus subsp. inornatus Strophurus spinigerus subsp. spinigerus Brachyurophis fasciolata subsp. fasciolata Brachyurophis semifasciata Echiopsis curta (Bardick) Elapognathus coronatus (Crowned Snake) Neelaps bimaculatus (Black-naped Snake) Neelaps calonotos (Black-striped Snake) Notechis scutatus (Tiger Snake) Parasuta gouldii Pseudechis australis (Mulga Snake) Pseudonaja affinis (Dugite) Pseudonaja affinis subsp. affinis (Dugite) Pseudonaja nuchalis (Gwardar) Simoselaps bertholdi (Jan's Banded Snake)	P3	







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Que Area
98.	24471	Falco berigora subsp. berigora			Alea
99.		Falco cenchroides (Australian Kestrel)			
100.		Falco cenchroides subsp. cenchroides			
101.		Falco longipennis (Australian Hobby)			
102.		Falco longipennis subsp. longipennis			
103.		Falco peregrinus (Peregrine Falcon)		S	
104.		Falco peregrinus subsp. macropus (Australian Peregrine Falcon)		S	
-1:					
Felidae	04044	5" (0)			
105.	24041	Felis catus (Cat)			
Fringillidae					
106.	25625	Carduelis carduelis (Goldfinch)			
107.	24480	Carduelis carduelis subsp. britannica			
3ekkonidae					
108.		Christinus marmaratus (Marhlad Cooks)			
109.		Christinus marmoratus (Marbled Gecko)			
		Gehyra variegata			
110.	25232	Hemidactylus frenatus (Asian House Gecko)			
Halcyonidae	•				
111.	30901	Dacelo novaeguineae (Laughing Kookaburra)			
112.	30902	Dacelo novaeguineae subsp. novaeguineae			
113.	25549	Todiramphus sanctus (Sacred Kingfisher)			
114.	24309	Todiramphus sanctus subsp. sanctus			
Hirundinida	•				
115.	~	Hirunda naayana (Malaama Suallau)			
116.		Hirundo neoxena (Welcome Swallow)			
116.	24492	Hirundo nigricans subsp. nigricans			
Hylidae					
117.	25378	Litoria adelaidensis (Slender Tree Frog)			
118.	25388	Litoria moorei (Motorbike Frog)			
_aridae					
119.	24506	Angua tanuiroatria auban, malanana (Australian Lagger Noddu)		Т	
120.		Anous tenuirostris subsp. melanops (Australian Lesser Noddy) Sterna fuscata subsp. nubilosa		ı	
121.		Sterna nereis subsp. nereis (Fairy Tern)		Т	
121.	24000	Glerna hereis subsp. hereis (rany renn)		•	
_imnodynas	stidae				
122.	25409	Heleioporus barycragus (Hooting Frog)			
123.	25410	Heleioporus eyrei (Moaning Frog)			
124.	25412	Heleioporus psammophilus (Sand Frog)			
125.	25415	Limnodynastes dorsalis (Western Banjo Frog)			
/lacropodid	ae				
126.		Macropus fuliginosus (Western Grey Kangaroo)			
127.		Macropus irma (Western Brush Wallaby)		P4	
128.		Macropus robustus subsp. erubescens (Euro)		1 4	
120.	24100	madropad robudiad dubop. Grabodochie (Edro)			
/laluridae					
129.	25651	Malurus lamberti (Variegated Fairy-wren)			
130.	OFCEO	14.1 1 1 1 1 1 1 1 1 1 1 1 1			
		Malurus leucopterus (White-winged Fairy-wren)			
131.		Malurus leucopterus (Wnite-winged Fairy-wren) Malurus splendens (Splendid Fairy-wren)			
	25654				
131. Meliphagida 132.	25654 le	Malurus splendens (Splendid Fairy-wren)			
Meliphagida 132.	25654 e 24559	Malurus splendens (Splendid Fairy-wren) Acanthagenys rufogularis (Spiny-cheeked Honeyeater)			
Meliphagida 132. 133.	25654 1 e 24559 24560	Malurus splendens (Splendid Fairy-wren) Acanthagenys rufogularis (Spiny-cheeked Honeyeater) Acanthorhynchus superciliosus (Western Spinebill)			
Meliphagida 132. 133. 134.	25654 16 24559 24560 24561	Malurus splendens (Splendid Fairy-wren) Acanthagenys rufogularis (Spiny-cheeked Honeyeater) Acanthorhynchus superciliosus (Western Spinebill) Anthochaera carunculata (Red Wattlebird)			
Meliphagida 132. 133. 134. 135.	25654 24559 24560 24561 24562	Malurus splendens (Splendid Fairy-wren) Acanthagenys rufogularis (Spiny-cheeked Honeyeater) Acanthorhynchus superciliosus (Western Spinebill) Anthochaera carunculata (Red Wattlebird) Anthochaera lunulata (Western Little Wattlebird)			
Meliphagida 132. 133. 134. 135. 136.	25654 24559 24560 24561 24562 24567	Malurus splendens (Splendid Fairy-wren) Acanthagenys rufogularis (Spiny-cheeked Honeyeater) Acanthorhynchus superciliosus (Western Spinebill) Anthochaera carunculata (Red Wattlebird) Anthochaera lunulata (Western Little Wattlebird) Epthianura albifrons (White-fronted Chat)			
Meliphagida 132. 133. 134. 135. 136.	25654 24559 24560 24561 24562 24567 24581	Malurus splendens (Splendid Fairy-wren) Acanthagenys rufogularis (Spiny-cheeked Honeyeater) Acanthorhynchus superciliosus (Western Spinebill) Anthochaera carunculata (Red Wattlebird) Anthochaera lunulata (Western Little Wattlebird) Epthianura albifrons (White-fronted Chat) Lichenostomus virescens (Singing Honeyeater)			
Meliphagida 132. 133. 134. 135. 136. 137. 138.	25654 24559 24560 24561 24562 24567 24581 25661	Malurus splendens (Splendid Fairy-wren) Acanthagenys rufogularis (Spiny-cheeked Honeyeater) Acanthorhynchus superciliosus (Western Spinebill) Anthochaera carunculata (Red Wattlebird) Anthochaera lunulata (Western Little Wattlebird) Epthianura albifrons (White-fronted Chat) Lichenostomus virescens (Singing Honeyeater) Lichmera indistincta (Brown Honeyeater)			
Meliphagida 132. 133. 134. 135. 136. 137. 138. 139.	25654 24559 24560 24561 24562 24567 24581 25661 25663	Malurus splendens (Splendid Fairy-wren) Acanthagenys rufogularis (Spiny-cheeked Honeyeater) Acanthorhynchus superciliosus (Western Spinebill) Anthochaera carunculata (Red Wattlebird) Anthochaera lunulata (Western Little Wattlebird) Epthianura albifrons (White-fronted Chat) Lichenostomus virescens (Singing Honeyeater) Lichmera indistincta (Brown Honeyeater) Melithreptus brevirostris (Brown-headed Honeyeater)			
Meliphagida 132. 133. 134. 135. 136. 137. 138. 139. 140.	25654 24559 24560 24561 24562 24567 24581 25661 25663 24586	Malurus splendens (Splendid Fairy-wren) Acanthagenys rufogularis (Spiny-cheeked Honeyeater) Acanthorhynchus superciliosus (Western Spinebill) Anthochaera carunculata (Red Wattlebird) Anthochaera lunulata (Western Little Wattlebird) Epthianura albifrons (White-fronted Chat) Lichenostomus virescens (Singing Honeyeater) Lichmera indistincta (Brown Honeyeater) Melithreptus brevirostris (Brown-headed Honeyeater) Melithreptus brevirostris subsp. leucogenys			
Meliphagida 132. 133. 134. 135. 136. 137. 138. 139. 140.	25654 24559 24560 24561 24562 24567 24581 25661 25663 24586	Malurus splendens (Splendid Fairy-wren) Acanthagenys rufogularis (Spiny-cheeked Honeyeater) Acanthorhynchus superciliosus (Western Spinebill) Anthochaera carunculata (Red Wattlebird) Anthochaera lunulata (Western Little Wattlebird) Epthianura albifrons (White-fronted Chat) Lichenostomus virescens (Singing Honeyeater) Lichmera indistincta (Brown Honeyeater) Melithreptus brevirostris (Brown-headed Honeyeater)			
Meliphagida 132. 133. 134. 135. 136. 137. 138. 139. 140. 141.	25654 24559 24560 24561 24562 24567 24581 25661 25663 24586 24596	Malurus splendens (Splendid Fairy-wren) Acanthagenys rufogularis (Spiny-cheeked Honeyeater) Acanthorhynchus superciliosus (Western Spinebill) Anthochaera carunculata (Red Wattlebird) Anthochaera lunulata (Western Little Wattlebird) Epthianura albifrons (White-fronted Chat) Lichenostomus virescens (Singing Honeyeater) Lichmera indistincta (Brown Honeyeater) Melithreptus brevirostris (Brown-headed Honeyeater) Melithreptus brevirostris subsp. leucogenys Phylidonyris novaehollandiae (New Holland Honeyeater)			
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Meliphagida 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. Meropidae 142. Molossidae 143. Muridae	25654 24559 24560 24561 24562 24567 24581 25663 24586 24598 24185 24215 24223	Malurus splendens (Splendid Fairy-wren) Acanthagenys rufogularis (Spiny-cheeked Honeyeater) Acanthorhynchus superciliosus (Western Spinebill) Anthochaera carunculata (Red Wattlebird) Anthochaera lunulata (Western Little Wattlebird) Epthianura albifrons (White-fronted Chat) Lichenostomus virescens (Singing Honeyeater) Lichmera indistincta (Brown Honeyeater) Melithreptus brevirostris (Brown-headed Honeyeater) Melithreptus brevirostris subsp. leucogenys Phylidonyris novaehollandiae (New Holland Honeyeater) Merops ornatus (Rainbow Bee-eater) Tadarida australis (White-striped Freetail-bat)			







	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Myobatrachio	dae				
147.		Crinia georgiana (Quacking Frog)			
148.	25399	Crinia glauerti (Clicking Frog)			
149.	25400	Crinia insignifera (Squelching Froglet)			
150.	25420	Myobatrachus gouldii (Turtle Frog)			
151.	25433	Pseudophryne guentheri (Crawling Toadlet)			
Myrmecobiid		Manuscriptor (Aurola (_	
152.	24146	Myrmecobius fasciatus (Numbat)		Т	
Neosittidae					
153.	25673	Daphoenositta chrysoptera (Varied Sittella)			
154.	24606	Daphoenositta chrysoptera subsp. pileata (Varied Sittella)			
Pachycephali	idae				
155.		Colluricincla harmonica (Grey Shrike-thrush)			
156.		Pachycephala pectoralis (Golden Whistler)			
157.		Pachycephala pectoralis subsp. fuliginosa			
158.		Pachycephala rufiventris (Rufous Whistler)			
159.		Pachycephala rufiventris subsp. rufiventris			
		,			
Pardalotidae					
160.		Pardalotus punctatus (Spotted Pardalote)			
161.	25682	Pardalotus striatus (Striated Pardalote)			
Pelecanidae					
162.	24648	Pelecanus conspicillatus (Australian Pelican)			
Peramelidae					
163.	24153	Isoodon obesulus subsp. fusciventer (Quenda, Southern Brown Bandicoot)		P5	
Petroicidae					
164.	24659	Petroica goodenovii (Red-capped Robin)			
165.	24660	Petroica multicolor subsp. campbelli			
Dhalaaraaara	مادام				
Phalacrocora		Dhalannan to (Ours) Ormania			
166.		Phalacrocorax carbo (Great Cormorant)			
167.		Phalacrocorax sulcirostris (Little Black Cormorant)			
168. 169.		Phalacrocorax varius (Pied Cormorant)			
109.	24000	Phalacrocorax varius subsp. hypoleucos			
Phalangerida	e				
170.	24158	Trichosurus vulpecula subsp. vulpecula (Common Brushtail Possum)			
Phasianidae					
171.	24671	Coturnix pectoralis (Stubble Quail)			
	24071	Cotamin pootorano (Classio Quan)			
Podargidae					
172.	25703	Podargus strigoides (Tawny Frogmouth)			
173.	24679	Podargus strigoides subsp. brachypterus			
Podicipedida	e				
174.		Podiceps cristatus (Great Crested Grebe)			
175.		Podiceps cristatus subsp. australis			
176.		Poliocephalus poliocephalus (Hoary-headed Grebe)			
177.		Tachybaptus novaehollandiae (Australasian Grebe)			
178.		Tachybaptus novaehollandiae subsp. novaehollandiae			
Procellariidae					
179.		Halobaena caerulea (Blue Petrel)			
180.		Pachyptila vittata (Broad-billed Prion)			
181.		Pterodroma brevirostris (Kerguelen Petrel)			
182.	24703	Pterodroma lessonii (White-headed Petrel)			
Psittacidae					
183.	25713	Cacatua galerita (Sulphur-crested Cockatoo)			
184.		Cacatua galerita subsp. galerita			
185.		Cacatua pastinator (Western Long-billed Corella)			
186.		Cacatua pastinator subsp. butleri (Butler's Corella)			
187.		Cacatua pastinator subsp. pastinator (Muir's Corella (Western Corella SW WA))		Т	
188.		Cacatua sanguinea (Little Corella)			
189.		Cacatua tenuirostris (Eastern Long-billed Corella)			
190.		Calyptorhynchus banksii (Red-tailed Black-Cockatoo)			
191.		Calyptorhynchus banksii subsp. naso (Forest Red-tailed Black-Cockatoo)		Т	
192.		Calyptorhynchus baudinii (Baudin's Cockatoo (long-billed black-cockatoo))		Т	
193.	24734	Calyptorhynchus latirostris (Carnaby's Cockatoo (short-billed black-cockatoo))		T	
194.	30918	Glossopsitta concinna (Musk Lorikeet)			
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	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area Y
195.	24735	Glossopsitta porphyrocephala (Purple-crowned Lorikeet)			ľ
196.	24736	Melopsittacus undulatus (Budgerigar)			
197.		Neophema elegans (Elegant Parrot)			
198.		Nymphicus hollandicus (Cockatiel)			
199.		Platycercus icterotis (Western Rosella)			
200. 201.		Platycercus spurius (Red-capped Parrot) Platycercus zonarius (Australian Ringneck)			
202.		Platycercus zonarius subsp. semitorquatus (Twenty-eight Parrot)			
203.		Polytelis anthopeplus subsp. westralis			
204.		Trichoglossus haematodus (Rainbow Lorikeet)			
Pygopodidae					
205.		Aprasia pulchella			
206.		Aprasia repens			
207.		Delma fraseri (Fraser's Legless Lizard)			
208.	24999	Delma grayii			
209.	25005	Lialis burtonis			
210.	25007	Pletholax gracilis subsp. gracilis			
211.	25008	Pygopus lepidopodus (Common Scaly Foot)			
Rallidae					
212.	25727	Fulica atra (Eurasian Coot)			
213.	25729	Gallinula tenebrosa (Dusky Moorhen)			
214.		Gallinula ventralis (Black-tailed Native-hen)			
215.		Gallirallus philippensis (Buff-banded Rail)			
216.		Gallirallus philippensis subsp. mellori			
217. 218.		Porphyrio porphyrio (Purple Swamphen) Porphyrio porphyrio subsp. bellus			
219.		Porzana fluminea (Australian Spotted Crake)			
220.		Porzana pusilla (Baillon's Crake)			
221.		Porzana pusilla subsp. palustris			
222.	24771	Porzana tabuensis (Spotless Crake)			
Recurvirostr	idae				
223.		Cladorhynchus leucocephalus (Banded Stilt)			
224.	25734	Himantopus himantopus (Black-winged Stilt)			
Scincidae					
225.	25011	Acritoscincus trilineatum			
226.	30893	Cryptoblepharus buchananii			
227.	25027	Ctenotus australis			
228.	25039	Ctenotus fallens			
229.		Ctenotus impar			
230.		Ctenotus labillardieri			
231.		Egernia luctuosa (Western Swamp Skink)			
232. 233.		Hemiergis peronii Hemiergis quadrilineata			
234.		Lerista distinguenda			
235.		Lerista elegans			
236.		Lerista lineopunctulata			
237.		Lerista praepedita			
238.	25184	Menetia greyii			
239.		Morethia obscura			
240.		Tiliqua occipitalis (Western Bluetongue)			
241.	25207	Tiliqua rugosa subsp. rugosa			
Sciuridae 242.	30916	Funambulus pennanti (Indian Palm Squirrel)			
Scolopacida	е				
243.		Actitis hypoleucos (Common Sandpiper)		IA	
244.		Calidris ferruginea (Curlew Sandpiper)		IA	
245.	24788	Calidris ruficollis (Red-necked Stint)		IA	
246.		Tringa glareola (Wood Sandpiper)		IA	
247.	24808	Tringa nebularia (Common Greenshank)		IA	
Strigidae 248.	257/17	Ninox connivens (Barking Owl)			
248.		Ninox novaeseelandiae (Boobook Owl)			
250.		Ninox novaeseelandiae subsp. boobook (Boobook Owl)			
		. , ,			
Sturnidae 251.	25751	Acridotheres tristis (Common Myna)			Υ
201.	23/31	Adiadalatida tilata (Continon myrta)			
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Conservation Code ¹Endemic To Query Area Name ID Species Name Naturalised

Suidae

24259 Sus scrofa (Pig)

Sylviidae

253. 25755 Acrocephalus australis (Australian Reed Warbler)

254. 25758 Megalurus gramineus (Little Grassbird)

Tachyglossidae

24207 Tachyglossus aculeatus (Echidna) 255.

Tarsipedidae

256. 24167 Tarsipes rostratus (Honey Possum)

Threskiornithidae

257. 24841 Platalea flavipes (Yellow-billed Spoonbill) 258. 24844 Threskiornis molucca (Australian White Ibis) 259. 24845 Threskiornis spinicollis (Straw-necked Ibis)

Turnicidae

24849 Turnix varia subsp. varia 260.

Typhlopidae

261. 25271 Ramphotyphlops australis 262. 25273 Ramphotyphlops bituberculatus 263. 25312 Ramphotyphlops braminus 264. 25285 Ramphotyphlops pinguis 265. 25288 Ramphotyphlops waitii

Tytonidae

266. 24852 Tyto alba subsp. delicatula (Barn Owl)

Varanidae

267. 25218 Varanus gouldii (Bungarra or Sand Monitor) 268 25227 Varanus tristis subsp. tristis (Racehorse Monitor)

Vespertilionidae

269.	24186 Chalinolobus gouldii (Gould's Wattled Bat)
270.	24194 Nyctophilus geoffroyi (Lesser Long-eared Bat)
271.	24206 Vespadelus regulus (Southern Forest Bat)

Zosteropidae

272. 25765 Zosterops lateralis (Grey-breasted White-eye) 273. 24856 Zosterops lateralis subsp. gouldi

Conservation Codes
T - Rare or likely to become extinct
X - Presumed extinct
IA - Protected under international agreement
S - Other specially protected fauna
1 - Priority 1
2 - Priority 2
3 - Priority 2
4 - Priority 5





¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholely contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.

${\bf Appendix} \; {\bf C-Conservation} \; {\bf codes}$

Conservation categories & definitions for *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) listed flora & fauna species

Conservation category	Definition
Extinct	Taxa not definitely located in the wild during the past 50 years
Extinct in the Wild	Taxa known to survive only in captivity
Critically Endangered	Taxa facing an extremely high risk of extinction in the wild in the immediate future
Endangered	Taxa facing a very high risk of extinction in the wild in the near future
Vulnerable	Taxa facing a high risk of extinction in the wild in the medium-term
Near Threatened	Taxa that risk becoming Vulnerable in the wild
Conservation Dependent	Taxa whose survival depends upon ongoing conservation measures. Without these measures, a conservation dependent taxon would be classified as Vulnerable or more severely threatened.
Data Deficient (Insufficiently Known)	Taxa suspected of being Rare, Vulnerable or Endangered, but whose true status cannot be determined without more information.
Least Concern	Taxa that are not considered Threatened

Migratory Species listed under the EPBC Act

The EPBC Act protects lands and migratory species that are listed under International Agreements. The list of migratory species established under section 209 of the EPBC Act comprises:

- Migratory species which are native to Australia and are included in the appendices to the Bonn Convention (Convention on the Conservation of Migratory Species of Wild Animals Appendices I and II);
- Migatory species included in annexes established under the Japan-Australia Migratory Bird Agreement (JAMBA) and the China-Australia Migratory Bird Agreement (CAMBA); and
- Native, migratory species identified in a list established under, or an instrument made under, an
 international agreement approved by the Minister, such as the republic of Korea-Australia
 Migratory Bird Agreement (ROKAMBA).

Conservation codes and descriptions for Western Australian flora & fauna

Code	Conservation	Description
Wildlin	category	5 0
T	fe Conservation Act 19 Schedule 1 under the WC Act	Threatened Fauna (Fauna that is rare or is likely to become extinct
		Threatened Flora (Declared Rare Flora – Extant)
		Taxa that have been adequately searched for and are deemed to be in the wild either rare, in danger of extinction, or otherwise in need of special protection, and have been gazetted as such.
		 CR: Critically Endangered – considered to be facing an extremely high risk of extinction in the wild. EN: Endangered – considered to be facing a very high risk of extinction in the wild. VU: Vulnerable – considered to be facing a high risk of extinction in the wild.
X	Schedule 2 under the	Presumed Extinct Fauna
	WC Act	Presumed Extinct Flora (Declared Rare Flora – Extinct)
		Taxa which have been adequately searched for and there is no reasonable doubt that the last individual has died, and have been gazetted as such.
IA	Schedule 3 under the WC Act	Birds protected under an international agreement.
	,	Birds that are subject to an agreement between governments of Australia and Japan relating to the protection of migratory birds and birds in danger of extinction.
S	Schedule 4 under the WC Act	Other specially protected fauna.
		Fauna that is in need of special protection, otherwise than for the reasons mentioned in the above schedules.
DPaW	Priority Listed	
1	Priority One: Poorly-known taxa	Taxa that are known from one or a few collections or sight records (generally less than five), all on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, Shire, Westrail and Main Roads WA road, gravel and soil reserves, and active mineral leases and under threat of habitat destruction or degradation. Taxa may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes.
2	Priority Two: Poorly-known taxa	Taxa that are known from one or a few collections or sight records, some of which are on lands not under imminent threat of habitat destruction or degradation, e.g. national parks, conservation parks, nature reserves, State forest, vacant Crown land, water reserves, etc. Taxa may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes.

Code	Conservation category	Description
3	Priority Three: Poorly-known taxa	Taxa that are known from collections or sight records from several localities not under imminent threat, or from few but widespread localities with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Taxa may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and known threatening processes exist that could affect them.
4	Priority Four: Rare, Near Threatened and other taxa in need of monitoring	 (a) Rare. Taxa that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These taxa are usually represented on conservation lands. (b) Near Threatened. Taxa that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable. (c) Taxa that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.
5	Priority 5: Conservation Dependent taxa	Taxa that are not threatened but are subject to a specific conservation program, the cessation of which would result in the taxon becoming threatened within five years.

Department of Agriculture and Food (Western Australia) Categories for Declared Pests under the *Biosecurity and Agriculture Management Act 2007*.

Control class code	Description
C1 (Exclusion)	Pests will be assigned to this category if they are not established in Western Australia and control measures are to be taken, including border checks, in order to prevent them entering and establishing in the State.
C2 (Eradication)	Pests will be assigned to this category if they are present in Western Australia in low enough numbers or in sufficiently limited areas that their eradication is still a possibility.
C3 (Management)	Pests will be assigned to this category if they are established in Western Australia but it is feasible, or desirable, to manage them in order to limit their damage. Control measures can prevent a C3 pest from increasing in population size or density or moving from an area in which it is established into an area which currently is free of that pest.

Conservation codes & definitions for Threatened Ecological Communities (TEC) endorsed by the Western Australian Minister for the Environment & listed under the EPBC Act

Western Australia conservation categories		Federal Government Conservation Categories (EPBC Act)	
Presumed Totally Destroyed (PD)	The community has been found to be totally destroyed or so extensively modified throughout its range that no occurrence of it is likely to recover its species composition and/or structure in the foreseeable future.	Critically Endangered (CR)	If, at that time, it is facing an extremely high risk of extinction in the wild in the immediate future
Critically Endangered (CR)	An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or that was originally of limited distribution and is facing severe modification or destruction throughout its range in the immediate future, or is already severely degraded throughout its range but capable of being substantially restored or rehabilitated	Endangered (EN)	If, at that time, it is not critically endangered and is facing a very high risk of extinction in the wild in the near future
Endangered (EN)	An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or was originally of limited distribution and is in danger of significant modification throughout its range or severe modification or destruction over most of its range in the near future.	Vulnerable (VU)	If, at that time, it is not critically endangered or endangered, and is facing a high risk of extinction in the wild in the medium-term future
Vulnerable (VU)	An ecological community that has been adequately surveyed and is found to be declining and/or has declined in distribution and/or condition and whose ultimate security has not yet been assured and/or a community that is still widespread but is believed likely to move into a category of higher threat in the near future if threatening processes continue or begin operating throughout its range.		

Conservation categories & definitions for Priority Ecological Communities (PEC) as listed by the DPaW

Category	Description
Priority 1	Poorly known ecological communities.
	Ecological communities that are known from very few occurrences with a very restricted distribution (generally ≤5 occurrences or a total area of ≤100ha). Occurrences are believed to be under threat either due to limited extent, or being on lands under immediate threat (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) or for which current threats exist. May include communities with occurrences on protected lands. Communities may be included if they are comparatively well-known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under immediate threat from known threatening processes across their range.
Priority 2	Poorly known ecological communities.
	Communities that are known from few occurrences with a restricted distribution (generally ≤10 occurrences or a total area of ≤200ha). At least some occurrences are not believed to be under immediate threat of destruction or degradation. Communities may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under threat from known threatening processes.
Priority 3	Poorly known ecological communities.
	(i) Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation or: (ii) communities known from a few widespread occurrences, which are either large or with significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat, or; (iii) communities made up of large, and/or widespread occurrences, that may or may not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stock, and inappropriate fire regimes. Communities may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and/or are not well defined, and known threatening processes exist that could affect them.
Priority 4	Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring. (i) Rare. Ecological communities known from few occurrences that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These communities are usually represented on conservation lands. (ii) Near Threatened. Ecological communities that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable. (iii) Ecological communities that have been removed from the list of threatened communities during the past five years.

Category	Description
Priority 5	Conservation Dependent ecological communities.
	Ecological communities that are not threatened but are subject to a specific conservation program, the cessation of which would result in the community becoming threatened within five years.

Appendix D — Flora data

Quadrat data & photographs

Species list

Flora likelihood of occurrence assessment

Quadrat data & photographs

Site	Q01	Project	Forrestfield Airport Link	
Type:	Quadrat	Size:	10 × 10 m	
Date:	17/09/2013	Described by:	AN & ML	
Co-ordinates:	MGA 50	400,585 mE	6,466,289 mN	
Location:	Swan River to Domestic Terminal			
Landform:	Flat			
Drainage:	Good drainage			
Soil colour & type: Grey-brown sand				
Vegetation type:	Open Woodland of Corymbia calophylla, Melaleuca preissiana and Banksia spp. over Xanthorrhoea preissii, Hypocalymma angustifolium and Dasypogon bromeliifolius, Pericalymma ellipticum var. ellipticum and Astartea scoparia			
Vegetation condition:	Good (4) – Degraded (5)			
Fire age & intensity:	ire age & intensity: Old (>5 years), no damage			
Disturbances:	Clearing, exotic weeds, a	learing, exotic weeds, animal		
Bare ground (%):	<2	Logs (%):	2-10	
Twigs (%):	10-30	Leaves (%):	30-70	
Rocks <2 cm (%):	<2	Rocks 2-30 cm (%):	<2	
Rocks >30 cm (%):	<2	Veg. ground layer (%):	70-100	



Family	Species	Status	Stratum	Cover (%)	Height (m)
Myrtaceae	Corymbia calophylla		U1	30-70	12
Loranthaceae	Nuytsia floribunda		M1	2-10	3
Fabaceae	Chamaecytisus palmensis		M2	<2	1.5
Proteaceae	Banksia menziesii		M2	<2	1.6
Poaceae	Ehrharta calycina	*	M3	30-70	0.8
Loranthaceae	Nuytsia floribunda		M3	<2	0.5
Ericaceae	Conostephium pendulum		M3	<2	0.5
Malvaceae	Brachychiton sp.	*	M3	<2	0.4
Iridaceae	Watsonia sp.	*	M3	<2	0.7
Iridaceae	Freesia alba x leichtlinii	*	G1	70-100	0.2
Oxalidaceae	Oxalis pes-caprae	*	G1	2-10	0.1
Asparagaceae	Sowerbaea laxiflora		G1	<2	0.3
Colchicaceae	Burchardia congesta		G1	<2	0.3
Iridaceae	Patersonia sp.		G1	<2	0.3
Xanthorrhoeaceae	Xanthorrhoea sp.		G1	<2	0.3
Dasypogonaceae	Dasypogon bromeliifolius		G1	<2	0.2
Orchidaceae	Caladenia latifolia		G1	<2	0.1

Site	Q02	Project	Forrestfield Airport Link		
Type:	Quadrat	Size:	10 × 10 m		
Date:	17/09/2013	Described by:	AN & ML		
Co-ordinates:	MGA 50	400,652 mE	6,466,221 mN		
Location:	Swan River to Domestic	Terminal			
Landform:	Drainage depression				
Drainage:	Good drainage				
Soil colour & type:	Brown sand				
Vegetation type:	spp. over Xanthorrhoea p	mbia calophylla, Melaleuca p preissii, Hypocalymma angu ma ellipticum var. ellipticum	stifolium and Dasypogon		
Vegetation condition:	Degraded (5)				
Fire age & intensity:	Old (>5 years), no damag	ge			
Disturbances:	Exotic weeds, animal				
Bare ground (%):	<2	Logs (%):	<2		
Twigs (%):	10-30	Leaves (%):	30-70		
Rocks <2 cm (%):	<2	Rocks 2-30 cm (%):	<2		
Rocks >30 cm (%):	<2	Veg. ground layer (%):	70-100		



Family	Species	Status	Stratum	Cover (%)	Height (m)
Myrtaceae	Corymbia calophylla		U1	70-100	14
Myrtaceae	Eucalyptus rudis		U2	2-10	9
Myrtaceae	Eucalyptus rudis		U3	<2	1.5
Myrtaceae	Corymbia calophylla		U3	<2	1.5
Iridaceae	Watsonia sp.	*	G1	70-100	0.8
Cyperaceae	Lepidosperma sp.		G1	<2	0.5

Site	Q03	Project	Forrestfield Airport Link
Type:	Quadrat	Size:	10 × 10 m
Date:	17/09/2013	Described by:	AN & ML
Co-ordinates:	MGA 50	400,825 mE	6,466,354 mN
Location:	Swan River to Domestic	Terminal	
Landform:	Drainage depression		
Drainage:	Good drainage		
Soil colour & type:	White-grey sand		
Vegetation type:	spp. over Xanthorrhoea p	mbia calophylla, Melaleuca p preissii, Hypocalymma angu na ellipticum var. ellipticum	stifolium and Dasypogon
Vegetation condition:	Excellent (2) - Very Good	d (3)	
Fire age & intensity:	Old (>5 years), no damag	je	
Disturbances:	Clearing, exotic weeds, a	nimal	
Bare ground (%):	10-30	Logs (%):	<2
Twigs (%):	<2	Leaves (%):	2-10
Rocks <2 cm (%):	<2	Rocks 2-30 cm (%):	<2
Rocks >30 cm (%):	<2	Veg. ground layer (%):	70-100



Family	Species	Status	Stratum	Cover (%)	Height (m)
Myrtaceae	Melaleuca preissiana		U1	2-10	5
Myrtaceae	Pericalymma ellipticum		M1	2-10	0.6

Family	Species	Status	Stratum	Cover (%)	Height (m)
Fabaceae	Gompholobium tomentosum		M1	2-10	0.6
Myrtaceae	Hypocalymma angustifolium		M1	2-10	0.5
Dasypogonaceae	Dasypogon bromeliifolius		G1	30-70	0.4
Haemodoraceae	Phlebocarya ciliata		G1	2-10	0.4
Iridaceae	Patersonia occidentalis		G1	2-10	0.4
Poaceae	Ehrharta calycina	*	G1	2-10	0.4
Haemodoraceae	Haemodorum spicatum		G1	<2	0.3
Anarthriaceae	Lyginia imberbis		G1	<2	0.3
Iridaceae	Gladiolus caryophyllaceus	*	G1	<2	0.5
Restionaceae	Hypolaena exsulca		G1	<2	0.5
	Mixed weedy herbs & grasses	*	G2	2-10	0.05
Colchicaceae	Burchardia congesta		G2	<2	0.2
Droseraceae	Drosera sp.		G2	<2	climbing
Droseraceae	Drosera glanduligera		G2	<2	prostrate

Site	Q04	Project	Forrestfield Airport Link
Type:	Quadrat	Size:	10 × 10 m
Date:	17/09/2013	Described by:	AN & ML
Co-ordinates:	MGA 50	400,401 mE	6,466,020 mN
Location:	Swan River to Domestic	Terminal	
Landform:	Flat		
Drainage:	Good drainage		
Soil colour & type:	Grey sand		
Vegetation type:	•	emnant <i>Eucalyptus margina</i> ked native species and an u veedy grasses and herbs	• •
Vegetation condition:	Excellent (2) - Very Good	d (3)	
Fire age & intensity:	Old (>5 years), no damag	ge	
Disturbances:	Clearing, exotic weeds, a	nimals	
Bare ground (%):	2-10	Logs (%):	<2
Twigs (%):	2-10	Leaves (%):	30-70
Rocks <2 cm (%):	<2	Rocks 2-30 cm (%):	<2
Rocks >30 cm (%):	<2	Veg. ground layer (%):	10-30



Family	Species	Status	Stratum	Cover (%)	Height (m)
Myrtaceae	Eucalyptus marginata		U1	2-10	12
Proteaceae	Banksia menziesii		U2	10-30	6
Proteaceae	Banksia grandis		U2	<2	2.5
Myrtaceae	Calytrix sp.		M1	10-30	1.6
Dilleniaceae	Hibbertia hypericoides		M2	30-70	0.5
Cyperaceae	Mesomelaena pseudostygia		M2	2-10	0.6
Poaceae	Ehrharta calycina	*	M2	2-10	0.6
Fabaceae	Gompholobium tomentosum		M2	<2	0.6
Cyperaceae	Lepidosperma longitudinale		M2	<2	0.5
Ericaceae	Conostephium pendulum		M2	<2	0.5
Proteaceae	Stirlingia latifolia		M2	<2	0.5
Fabaceae	Bossiaea eriocarpa		M2	<2	0.3
Fabaceae	Daviesia divaricata		M2	<2	0.3
Fabaceae	Daviesia nudiflora		M2	<2	0.3
Proteaceae	Petrophile linearis		M2	<2	0.2
Asparagaceae	Sowerbaea laxiflora		G1	<2	0.3
Colchicaceae	Burchardia congesta		G1	<2	0.3
Haemodoraceae	Conostylis aculeata		G1	<2	0.2
Haemodoraceae	Haemodorum laxum		G1	<2	0.2
Hemerocallidaceae	Johnsonia?pubescens		G1	<2	0.2
Goodeniaceae	Dampiera linearis		G1	<2	0.1
Asparagaceae	Thysanotus manglesianus/ patersonii complex		G2	<2	climbing
Araliaceae	Trachymene pilosa		G2	<2	0.05
Iridaceae	Romulea rosea	*	G2	<2	0.05
Poaceae	Briza maxima	*	G2	<2	0.05
Droseraceae	Drosera erythrorhiza		G2	2-10	prostrate
Asteraceae	Hypochaeris sp.		G2	<2	prostrate

Site	Q05	Project	Forrestfield Airport Link
Type:	Quadrat	Size:	10 × 10 m
Date:	17/09/2013	Described by:	AN & ML
Co-ordinates:	MGA 50	404,923 mE	6,464,720 mN
Location:	High Wycombe		
Landform:	Flat		
Drainage:	Good drainage		
Soil colour & type:	Grey sand		
Vegetation type:		rginata/E. rudis/Corymbia ca orey of mixed native specie:	
Vegetation condition:	Excellent (2) - Very Good	d (3)	
Fire age & intensity:	Old (>5 years), no damag	ge	
Disturbances:	Clearing, exotic weeds, a	nimal	
Bare ground (%):	<2	Logs (%):	2-10
Twigs (%):	30-70	Leaves (%):	70-100
Rocks <2 cm (%):	<2	Rocks 2-30 cm (%):	<2
Rocks >30 cm (%):	<2	Veg. ground layer (%):	30-70



Family	Species	Status	Stratum	Cover (%)	Height (m)
Myrtaceae	Corymbia calophylla		U1	10-30	12
Casuarinaceae	Allocasuarina fraseriana		U2	10-30	6
Proteaceae	Hakea ruscifolia		M1	<2	1.5
Fabaceae	Acacia saligna		M1	<2	1.5
Proteaceae	Conospermum undulatum	Threatened (State), Vulnerable (Federal)	M1	<2	1.5
Proteaceae	Stirlingia latifolia		M2	2-10	0.8
Iridaceae	Gladiolus caryophyllaceus	*	M2	<2	0.8
Violaceae	Hybanthus calycinus		G1	10-30	0.3
Poaceae	Ehrharta calycina	*	G1	2-10	0.6
Proteaceae	Banksia dallanneyi		G1	2-10	0.4
Asparagaceae	Lomandra sp.		G1	<2	0.3
Colchicaceae	Burchardia congesta		G1	<2	0.3
Cyperaceae	Lepidosperma sp.		G1	<2	0.3
Cyperaceae	Tetraria octandra		G1	<2	0.3
Fabaceae	Hovea trisperma		G1	<2	0.3
Haemodoraceae	Haemodorum sp.		G1	<2	0.3
Dilleniaceae	Hibbertia hypericoides		G1	<2	0.2
Fabaceae	Acacia sessilis		G1	<2	0.2
Fabaceae	Labichea punctata		G1	<2	0.1
Restionaceae	Desmocladus flexuosus		G1	<2	0.1
Pittosporaceae	Billardiera sp.		G1	<2	creeper
Droseraceae	Drosera erythrorhiza		G2	2-10	prostrate
Orchidaceae	Caladenia arenicola		G2	<2	0.3
Goodeniaceae	Dampiera linearis		G2	<2	0.1
Araliaceae	Trachymene pilosa		G2	<2	0.05

Site	Q06	Project	Forrestfield Airport Link		
Type:	Quadrat	Size:	10 × 10 m		
Date:	17/09/2013	Described by:	AN & ML		
Co-ordinates:	MGA 50	404,711 mE	6;463;786 mN		
Location:	High Wycombe				
Landform:	Flat				
Drainage:	Good drainage	Good drainage			
Soil colour & type:	White-grey sand				
Vegetation type:	Sparse Woodland of Corpshrubs, sedges and herbs	<i>ymbia calophylla</i> over <i>Xantl</i> s	norrhoea preissii and low		
Vegetation condition:	Very Good (3) - Good (4)				
Fire age & intensity:	Old (>5 years), minor imp	pact, scars on some trees			
Disturbances:	Clearing, infrastructure no	earby, exotic weeds, animal			
Bare ground (%):	2-10	Logs (%):	2-10		
Twigs (%):	<2	Leaves (%):	2-10		
Rocks <2 cm (%):	<2	Rocks 2-30 cm (%):	<2		
Rocks >30 cm (%):	<2	Veg. ground layer (%):	70-100		



Family	Species	Status	Stratum	Cover (%)	Height (m)
Loranthaceae	Nuytsia floribunda		U1	2-10	6
Poaceae	Ehrharta calycina	*	M1	10-30	0.8
Dilleniaceae	Hibbertia hypericoides		M1	10-30	0.5
Haemodoraceae	Anigozanthos manglesii		M1	2-10	0.8
Proteaceae	Stirlingia latifolia		M1	2-10	0.5
Xanthorrhoeaceae	Xanthorrhoea sp.		M1	2-10	0.5
Proteaceae	Petrophile linearis		M1	2-10	0.3
Proteaceae	Persoonia saccata		M1	<2	0.5
Ericaceae	Conostephium pendulum		M1	<2	0.3
Proteaceae	Synaphea?spinulosa		M1	<2	0.3
Asparagaceae	Thysanotus manglesianus/ patersonii complex		M1	<2	climbing
Dasypogonaceae	Dasypogon bromeliifolius		G1	2-10	0.5
Anarthriaceae	Lyginia imberbis		G1	<2	0.5
Haemodoraceae	Haemodorum sp.		G1	<2	0.5
Cyperaceae	Mesomelaena pseudostygia		G1	<2	0.3
Dasypogonaceae	Calectasia narragara		G1	<2	0.3
Restionaceae	Hypolaena exsulca		G1	<2	0.3
Rutaceae	Boronia ramosa		G1	<2	0.3
Haemodoraceae	Conostylis juncea		G2	<2	0.1
Asteraceae	Ursinia anthemoides	*	G2	<2	0.05
Restionaceae	Loxocarya cinerea		G2	<2	0.05
Asteraceae	Hypochaeris sp.		G2	<2	prostrate

Site	Q07	Project	Forrestfield Airport Link						
Type:	Quadrat	Size:	10 × 10 m						
Date:	17/09/2013	Described by:	AN & ML						
Co-ordinates:	MGA 50	404,724 mE	6,464,018 mN						
Location:	High Wycombe								
Landform:	Flat								
Drainage:	Good drainage	Good drainage							
Soil colour & type:	Grey-white sand								
Vegetation type:	Sparse Woodland of Corymbia calophylla over Xanthorrhoea preissii and low shrubs, sedges and herbs								
Vegetation condition:	Excellent (2)								
Fire age & intensity:	Old (>5 years), no damag	je							
Disturbances:	Clearing, infrastructure, e	xotic weeds, animal							
Bare ground (%):	2-10	Logs (%):	<2						
Twigs (%):	<2	Leaves (%):	2-10						
Rocks <2 cm (%):	<2	Rocks 2-30 cm (%):	<2						
Rocks >30 cm (%):	<2	Veg. ground layer (%):	70-100						



Family	Species	Status	Stratum	Cover (%)	Height (m)
Myrtaceae	Leptospermum laevigatum	*	M1	2-10	5
Cyperaceae	Cyathochaeta avenacea		M2	2-10	0.9
Cyperaceae	Mesomelaena tetragona		M2	2-10	0.5
Dilleniaceae	Hibbertia hypericoides		M2	2-10	0.5
Fabaceae	Daviesia physodes		M2	2-10	0.4
Poaceae	Ehrharta calycina	*	M2	<2	0.8
Fabaceae	Gompholobium tomentosum		M2	<2	0.4
Fabaceae	Bossiaea eriocarpa		M2	<2	0.3
Proteaceae	Stirling latifolia		M2	<2	0.3
Lauraceae	Cassytha sp.		M2	<2	climbing
Iridaceae	Patersonia occidentalis		M2	<2	0.5
Dasypogonaceae	Dasypogon bromeliifolius		G1	10-30	0.4
Haemodoraceae	Anigozanthos manglesii		G1	2-10	0.9
Xanthorrhoeaceae	Xanthorrhoea sp.		G1	2-10	0.9
Restionaceae	Loxocarya cinerea		G1	2-10	0.05
Asteraceae	Tagetes minuta	*	G1	<2	0.5
Colchicaceae	Burchardia congesta		G1	<2	0.3
Asparagaceae	Lomandra sp.		G1	<2	0.2
Asparagaceae	Chamaescilla corymbosa		G1	<2	0.1
Asteraceae	Ursinia anthemoides	*	G1	<2	0.1
Fabaceae	Acacia applanata		G1	<2	0.1
Fabaceae	Acacia sessilis		G1	<2	0.1
Orchidaceae	Caladenia flava		G1	<2	0.1
Proteaceae	Banksia dallanneyi		G1	<2	0.1
Restionaceae	Desmocladus fascicularis		G1	<2	0.1
Haemodoraceae	Conostylis aculeata		G1	<2	0.05
Haemodoraceae	Conostylis setigera		G1	<2	0.05
Droseraceae	Drosera sp.		G1	<2	climbing
Cyperaceae	Caustis dioica		G2	2-10	0.1
Goodeniaceae	Scaevola repens		G2	<2	0.05
Asteraceae	Hypochaeris sp.		G2	<2	prostrate

Site	Q08	Project	Forrestfield Airport Link				
Type:	Quadrat	Size:	10 × 10 m				
Date:	17/09/2013	Described by:	AN & ML				
Co-ordinates:	MGA 50	405,081 mE	6,464,531 mN				
Location:	High Wycombe						
Landform:	Creek bank						
Drainage:	Good drainage						
Soil colour & type:	Grey sand						
Vegetation type:	Remnant Eucalyptus marginata/E. rudis/Corymbia calophylla Woodland over a mid-storey and understorey of mixed native species						
Vegetation condition:	Very Good (3)						
Fire age & intensity:	Old (>5 years), no damag	ge					
Disturbances:	Clearing, exotic weeds, a	nimal					
Bare ground (%):	<2	Logs (%):	<2				
Twigs (%):	10-30	Leaves (%):	30-70				
Rocks <2 cm (%):	<2	Rocks 2-30 cm (%):	<2				
Rocks >30 cm (%):	<2	Veg. ground layer (%):	10-30				



Family	Species	Status	Stratum	Cover (%)	Height (m)
Myrtaceae	Corymbia calophylla		U1	30-70	15
Casuarinaceae	Allocasuarina fraseriana		U2	2-10	7
Malvaceae	Thomasia macrocarpa		M1	30-70	2.2
Rhamnaceae	Trymalium odoratissimum		M1	30-70	2.5
Proteaceae	Hakea lissocarpha		M2	2-10	0.7
Poaceae	Ehrharta calycina		G1	2-10	0.5
Iridaceae	Watsonia sp.		G1	<2	0.4
Cyperaceae	Lepidosperma gladiatum		G1	<2	0.3
Hemerocallidaceae	Tricoryne elatior		G1	<2	0.2
Fabaceae	Hovea trisperma		G1	<2	0.1

Site	PP01	Project	Forrestfield Airport Link					
Type:	Quadrat	Size:	10 × 10 m					
Date:	17/09/2013	Described by:	AN & ML					
Co-ordinates:	MGA 50	400,419 mE	6,465,983 mN					
Location:	High Wycombe							
Landform:	Flat							
Drainage:	Good drainage							
Soil colour & type:	Grey sand							
Vegetation type:	Low Open Woodland of remnant <i>Eucalyptus marginata</i> and <i>Banksia</i> spp. over a native mid-storey of mixed native species and an understorey of either mixed native species or weedy grasses and herbs							
Vegetation condition:	Very Good (3)							
Fire age & intensity:	Old (>5 years), no damag	ge						
Disturbances:	Clearing, exotic weeds, a	nimal						
Bare ground (%):	<2	Logs (%):	<2					
Twigs (%):	10-30	Leaves (%):	30-70					
Rocks <2 cm (%):	<2	Rocks 2-30 cm (%):	<2					
Rocks >30 cm (%):	<2	Veg. ground layer (%):	30-70					



Family	Taxa	Status
Agapanthaceae	Agapanthus sp.	*
Anacardiaceae	Schinus terebinthifolius	*
Anarthriaceae	Lyginia imberbis	
Apiaceae	Xanthosia candida	
Apiaceae	Xanthosia huegelii	
Araliaceae	Trachymene pilosa	
Arecaceae	Palm	*
Asparagaceae	Asparagus declinatus	*
Asparagaceae	Chamaescilla corymbosa	
Asparagaceae	Laxmannia ramosa	
Asparagaceae	Lomandra micrantha	
Asparagaceae	Lomandra preissii	
Asparagaceae	Lomandra purpurea	
Asparagaceae	Lomandra sp.	
Asparagaceae	Sowerbaea laxiflora	
Asparagaceae	Thysanotus manglesianus/patersonii complex	
Asparagaceae	Thysanotus multiflorus	
Asteraceae	Arctotheca calendula	*
Asteraceae	Cotula sp.	*
Asteraceae	Dimorphotheca ecklonis	*
Asteraceae	Hypochaeris sp.	
Asteraceae	Podotheca gnaphalioides	
Asteraceae	Sonchus sp.	*
Asteraceae	Tagetes minuta	*
Asteraceae	Ursinia anthemoides	*
Asteraceae	Verbesina encelioides	*
Brassicaceae	Brassica tournefortii	*
Cactaceae	Opuntia stricta	*
Caryophyllaceae	Petrorhagia dubia	*
Casuarinaceae	Allocasuarina fraseriana	
Casuarinaceae	Allocasuarina humilis	
Casuarinaceae	Casuarina obesa	
Colchicaceae	Burchardia congesta	
Crassulaceae	Crassula sp.	*
Cupressaceae	Callitris preissii	planted
Cyperaceae	Caustis dioica	
Cyperaceae	Cyathochaeta avenacea	
Cyperaceae	Ficinia nodosa	
Cyperaceae	Lepidosperma gladiatum	
Cyperaceae	Lepidosperma leptostachyum	
Cyperaceae	Lepidosperma longitudinale	
Cyperaceae	Lepidosperma sp.	
Cyperaceae	Mesomelaena pseudostygia	
Cyperaceae	Mesomelaena tetragona	
Cyperaceae	Schoenus ?brevisetis	
Cyperaceae	Tetraria octandra	
Dasypogonaceae	Calectasia narragara	
Dasypogonaceae	Dasypogon bromeliifolius	
Dilleniaceae	Hibbertia huegelii	
Dilleniaceae	Hibbertia hypericoides	
Dilleniaceae	Hibbertia subvaginata	
Droseraceae	Drosera erythrorhiza	
Droseraceae	Drosera glanduligera	
Droseraceae	Drosera sp.	
Ericaceae	Conostephium pendulum	
	Funharhia tarragina	*
Euphorbiaceae	Euphorbia terracina	
Euphorbiaceae Euphorbiaceae Fabaceae	Ricinis communis Acacia alata	*

Family	Таха	Status
Fabaceae	Acacia applanata	
Fabaceae	Acacia longifolia	*
Fabaceae	Acacia pulchella var. pulchella	
Fabaceae	Acacia saligna	
Fabaceae	Acacia sessilis	
Fabaceae	Bossiaea eriocarpa	
Fabaceae	Chamaecytisus palmensis	*
Fabaceae	Daviesia angulata	
Fabaceae	Daviesia decurrens	
Fabaceae	Daviesia divaricata	
Fabaceae	Daviesia nudiflora	
Fabaceae	Daviesia physodes	
Fabaceae	Gastrolobium capitatum	
Fabaceae	Gompholobium aristatum	
Fabaceae	Gompholobium tomentosum	
Fabaceae	Hovea trisperma	
Fabaceae	Jacksonia floribunda	
Fabaceae	Jacksonia furcellata	
Fabaceae	Kennedia coccinea	
Fabaceae	Kennedia prostrata	
Fabaceae	Labichea punctata	
Fabaceae	Lupinus angustifolius	*
Fabaceae	•	*
Fabaceae	Lupinus cosentinii	*
	Lupinus luteus	*
Fabaceae	Ornithopus sativus	*
Fabaceae	Trifolium angustifolium	*
Fabaceae	Trifolium arvense	*
Fabaceae	Trifolium campestre	*
Geraniaceae	Pelargonium capitatum	
Goodeniaceae	Dampiera linearis	
Goodeniaceae	Lechenaultia biloba	
Goodeniaceae	Scaevola canescens	
Goodeniaceae	Scaevola repens	
Haemodoraceae	Anigozanthos humilis	
Haemodoraceae	Anigozanthos manglesii	
Haemodoraceae	Conostylis aculeata	
Haemodoraceae	Conostylis juncea	
Haemodoraceae	Conostylis setigera	
Haemodoraceae	Haemodorum laxum	
Haemodoraceae	Haemodorum sp.	
Haemodoraceae	Haemodorum spicatum	
Haemodoraceae	Phlebocarya ciliata	
Hemerocallidaceae	Agrostocrinum hirsutum	
Hemerocallidaceae	Agrostocrinum scabrum	
Hemerocallidaceae	Caesia micrantha	
Hemerocallidaceae	Dianella revoluta	
Hemerocallidaceae	Johnsonia ?pubescens	
Hemerocallidaceae	Tricoryne elatior	*
Iridaceae	Freesia alba x leichtlinii	
Iridaceae	Gladiolus caryophyllaceus	*
Iridaceae	Moraea sp.	*
Iridaceae	Patersonia occidentalis	
Iridaceae	Patersonia sp.	
Iridaceae	Romulea rosea	*
Iridaceae	Watsonia sp.	*
Juncaceae	Juncus pallidus	
Juncaceae	Juncus sp.	
Lauraceae	Cassytha sp.	

Family	Taxa	Status
Loranthaceae	Nuytsia floribunda	
Malvaceae	Brachychiton sp.	*
Malvaceae	Malva parviflora	*
Malvaceae	Thomasia macrocarpa	
Moraceae	Ficus sp.	*
Myrtaceae	Astartea scoparia	
Myrtaceae	Babingtonia camphorosmae	
Myrtaceae	Callistemon cultivar	*
Myrtaceae	Calothamnus ?rupestris	P4, planted
Myrtaceae	Calothamnus quadrifidus subsp. quadrifidus	
Myrtaceae	Calytrix sp.	
Myrtaceae	Corymbia calophylla	
Myrtaceae	Corymbia maculata	*
Myrtaceae	Eucalyptus camaldulensis	planted
Myrtaceae	Eucalytpus caesia	P4, planted
Myrtaceae	Eucalyptus gomphocephala	
Myrtaceae	Eucalyptus marginata	
Myrtaceae	Eucalyptus rudis	
Myrtaceae	Eucalyptus todtiana	
Myrtaceae	Hypocalymma angustifolium	
Myrtaceae	Kunzea micrantha	
Myrtaceae	Leptospermum laevigatum	*
Myrtaceae	Melaleuca cuticularis	
Myrtaceae	Melaleuca preissiana	
Myrtaceae	Melaleuca rhaphiophylla	
Myrtaceae	Melaleuca seriata	
Myrtaceae	Pericalymma ellipticum	
Myrtaceae	Scholtzia involucrata	
Oleaceae	Olea europaea	*
Orchidaceae	Caladenia arenicola	
Orchidaceae	Caladenia flava	
Orchidaceae	Caladenia latifolia	
Orchidaceae	Pterostylis ?sanguinea	
Orchidaceae	Pterostylis sp.	
Orchidaceae	Thelymitra crinita	
Oxalidaceae	Oxalis pes-caprae	*
Papaveraceae	Fumaria capreolata	*
Phytolaccaceae	Phytolacca octandra	*
Pittosporaceae	Billardiera sp.	
Poaceae	Arundo donax	*
Poaceae	Avena barbata	*
Poaceae	Briza maxima	*
Poaceae	Bromus diandrus	*
Poaceae	Ehrharta calycina	*
Poaceae	Ehrharta longiflora	*
Poaceae	Lagurus ovatus	*
Poaceae	Stenotaphrum secundatum	*
Poaceae	Triticum aestivum	*
Primulaceae	Lysimachia arvensis	*
Proteaceae	Adenanthos cygnorum	
Proteaceae	Banksia attenuata	
Proteaceae	Banksia dallanneyi	
Proteaceae	Banksia grandis	
Proteaceae	Banksia menziesii	
Proteaceae	Banksia sessilis	
Proteaceae	Conospermum stoechadis	
Proteaceae	Conospermum undulatum	T, V
Proteaceae	Grevillea bipinnatifida	

Family	Taxa	Status
Proteaceae	Hakea lissocarpha	
Proteaceae	Hakea prostrata	
Proteaceae	Hakea ruscifolia	
Proteaceae	Hakea trifurcata	
Proteaceae	Hakea undulata	
Proteaceae	Hakea varia	
Proteaceae	Persoonia saccata	
Proteaceae	Petrophile linearis	
Proteaceae	Stirlingia latifolia	
Proteaceae	Synaphea ?spinulosa	
Restionaceae	Alexgeorgea nitens	
Restionaceae	Desmocladus fascicularis	
Restionaceae	Desmocladus flexuosus	
Restionaceae	Hypolaena exsulca	
Restionaceae	Loxocarya cinerea	
Rhamnaceae	Trymalium odoratissimum	
Rutaceae	Boronia ramosa	
Rutaceae	Philotheca spicata	
Sapinidaceae	Diplopeltis huegelii	
Scrophulariaceae	Dischisma capitatum	*
Stylidiaceae	Stylidium calcaratum	
Thymelaeaceae	Pimelea ?imbricata	
Thymelaeaceae	Pimelea sp.	
Tropaeolaceae	Tropaeolum majus	*
Violaceae	Hybanthus calycinus	
Xanthorrhoeaceae	Xanthorrhoea gracilis	
Xanthorrhoeaceae	Xanthorrhoea preissii	
Xanthorrhoeaceae	Xanthorrhoea sp.	
Zamiaceae	Macrozamia fraseri	
	Mixed weedy herbs & grasses	*

^{*} Introduced species

Conservation codes are provided in Appendix C.

P4 Department of Parks and Wildlife Priority 4

T, V State Threatened, Federal Vulnerable

Family Scientific name		Common name	Status Source				Description and habitat requirements*	Likelihood of occurrence	
1 anning	Colemanie	Common name			h NatureMap Search	DEFL/WAHER		Likelinood of occurrence	
			otate i e	aorai El De Scalc	n Mataremap ocaren	B			
							Prostrate perennial, herb, to 0.15 m high. Fl. white-green, Oct to Nov. Clay,		
Apiaceae	Eryngium subdecumbens		P3		×		grey sand. Seasonally wet flats, claypans, swamps.	Unlikely.	
Apiaceae	Platysace ramosissima		P3		×	×	Perennial, herb, to 0.3 m high. Fl. white-cream, Oct to Nov. Sandy soils.	Possible.	
Araliaceae	Hydrocotyle lemnoides	Aquatic Pennywort	P4		×	×	Aquatic, floating annual, herb. Fl. purple, Aug to Oct. Swamps.	Possible.	
Araliaceae	Hydrocotyle striata		P1		×	×	Herb. Clay. Springs.	Possible.	
							Rhizomatous, leafless perennial, herb, to 0.4 m high. Fl. purple, Oct to Dec.		
Asparagaceae	Thysanotus anceps		P3		×		White or grey sand, lateritic gravel, laterite.	Possible.	
							Erect, slender perennial, herb, to 1.5 m high. Fl. yellow, Sep to Nov. Peaty		
Asteraceae	Senecio gilbertii		P1		×	×	sand. Swamps, slopes.	Unlikely.	
							Erect shrub, 0.35-1 m high. Fl. blue-purple, Aug to Nov. Gravelly soils, soils		
Boraginaceae	Halgania corymbosa		P3		×	×	over granite.	Possible.	
							Small, branched perennial, herb (or sub-shrub), to 0.45 m high. Fl. pink-		
					×	×	purple/white, Sep to Dec or Jan. Sandy-peat swamps. Seasonally wet		
Byblidaceae	Byblis gigantea	Rainbow Plant	P3				areas.	Possible.	
				v			Tufted annual, herb (forming a rounded cushion up to 25 mm across). Fl.		
Centrolepidaceae	Centrolepis caespitosa		P4 E	×			Oct to Dec. White sand, clay. Salt flats, wet areas.	Unlikely.	
					v		Rhizomatous, perennial, grass-like or herb (sedge). Fl. red-brown. Mud. In		
Cyperaceae	Bolboschoenus medianus		P1		×	×	water and on river banks.	Possible.	
							Monoecious, rhizomatous, tufted perennial, grass-like or herb (sedge), 0.7		
Cyperaceae	Carex tereticaulis		P1			×	m high. Fl. brown, Sep to Oct. Black peaty sand.	Unlikely.	
							Rhizomatous, clumped, robust perennial, grass-like or herb (sedge), to 2 m		
					×	×	high, to 1.0 m wide. Fl. brown. Grey sand, sandy clay. Swamps, creek		
Cyperaceae	Cyathochaeta teretifolia		P3				edges.	Possible.	
				v			Rhizomatous, tufted perennial, grass-like or herb (sedge), 0.5 m high. Fl.		
Cyperaceae	Lepidosperma rostratum	Beaked Lepidosperma	T E	×			brown. Peaty sand, clay.	Unlikely.	
					×	×	Small, tufted perennial, grass-like or herb (sedge), to 0.1 m high. Fl. Sep to		
Cyperaceae	Schoenus griffinianus		P3		^	^	Oct. White sand.	Possible.	
							Tufted annual, grass-like or herb (sedge), 0.05-0.15 m high. Fl. purple-		
					×	×	black, Aug to Sep. Grey or peaty sand, sandy clay. Swamps, winter-wet		
Cyperaceae	Schoenus pennisetis		P1				depressions.	Possible.	
	Tetratheca sp. Granite (S. Patrick					×			
Elaeocarpaceae	SP1224)		P3			^	Erect shrub, to 0.4 m high. Clay, moist loam, clayey sand. Granite boulders.	Unlikely.	
							Slender erect or open straggly shrub, 0.1-0.5(-1) m high. Fl. white-pink-		
				×			purple, Sep to Nov. White/grey sand, sandy clay, gravelly loam. Winter-wet		
Ericaceae	Andersonia gracilis	Slender Andersonia	T E				areas, near swamps.	Possible.	
				×	×	×	Slender, rush-like shrub, 0.2-0.5 m high. Fl. yellow, Aug to Sep. Lateritic		
Fabaceae	Acacia anomala	Grass Wattle	T V				soils. Slopes.	Unlikely.	
		147 112 .	D.4		×	×	Low spreading shrub, to 0.6 m high. Fl. orange, usually Dec or Jan to Feb.	D 11	
Fabaceae	Jacksonia sericea	Waldjumi	P4				Calcareous & sandy soils.	Possible.	
			5.4		×	×	Prostrate or ascending shrub, 0.1-0.4(-0.6) m high. Fl. yellow &		
Fabaceae	Templetonia drummondii		P4				brown/purple, Aug to Sep. Lateritic soils.	Unlikely.	
							Front powerial bank or should to 0.5 makink 51 kkm. Averta Dan Duranan		
0	Damas is no tollate a		D4		×	×	Erect perennial, herb or shrub, to 0.5 m high. Fl. blue, Aug to Dec. Dry grey	Describle.	
Goodeniaceae	Dampiera triloba		P1				soil, damp peaty sand, loamy sand. Hillside, coastal plain, sandy rise.	Possible.	
Haamadaraaaa	I la a ma da ri um la rati um		P3		×	×	Bulbaceous, perennial, herb, 0.45-1.2(-2) m high. Fl. black/brown-	Descible	
i iaemouoraceae	Haemodorum loratum		гэ				black/green, Nov. Grey or yellow sand, gravel.	Possible.	
Haloragaasa	Muriophyllum ochinotum		D2		×	×	Front applied both 0.02.0.02 m high El rod Nov. Clay Winter wet flate	Liplikoly	
Haloragaceae	Myriophyllum echinatum Hydatella dioica [now Trithuria		P3				Erect annual, herb, 0.02-0.03 m high. Fl. red, Nov. Clay. Winter-wet flats. Annual herb, leaves red. Fl. red, purple-red, Oct. Grey-brown clay. Low-lying	Unlikely.	
Hydatellacean		Swan Hudatalla	T E	×	×		depression, drying pools, muddy claypan.		
Hydatellaceae	occidentalis]	Swan Hydatella	1 [uepression, drying pools, muddy daypan.	Unlikely.	
					v	,	Erect, open shrub, 0.4-1.5 m high. Fl. pink-purple, Aug to Nov. Sandy clay,		
Malyacoao	Lasionetalum bractoatum	Helena Velvet Bush	P4		×	×	clay, lateritic gravel. Along drainage lines, creeks, gullies, granite outcrops.	Possible.	
Malvaceae	Lasiopetalum bracteatum	inelelia velvet Bush	Γ4				Open, multi-stemmed shrub (with distinctly winged fruit), to 1.2 m high. Fl.	LOSSINIA.	
							pink, Aug to Dec. Dark red-brown loam or clayey sand over granite. On		
Malyacoao	Lasionetalum ntorocarnum		т Е	×			sloping banks near creeklines.	Unlikely.	
Malvaceae	Lasiopetalum pterocarpum		1 6				Emergent aquatic herb. Fl. white/cream, Aug to Nov. Seasonal wetland.	OTHINGIY.	
					.,		Yellow grey clayey sand, granite derived soil over limestone, moist brown		
Menyanthagasa	Ornduffia submersa		P4		×	×		Unlikely.	
Menyanthaceae	Villarsia calthifolia [now Ornduffia		Г4				clay. Upright tuberous rhizomatous herb 0.1—1.2 m. Fl. yellow, Oct to Jan, Apr.	Offlikely.	
Menyanthacoac	calthifolia]	Mountain Villarsia	т Е		×		Granite slopes with brown sandy loam over granite.	Highly Unlikely.	
Menyanthaceae	caidiiiOila j	Mountain Villarsia	1 E				Erect or spreading perennial, herb or shrub, 0.2-0.4 m high, 0.3-0.6 m wide.		
Mollugingon	Magarthuria kaishani		т г	×	×	×			
Molluginaceae	Macarthuria keigheryi		T E				Fl. Sep to Dec or Feb to Mar. White or grey sand. Erect & slender shrub, to 1.8 m high. Fl. pink-red. Sandy soils over laterite.	Possible.	
Myrtacoso	Calothamnus accodors		P4		×	×		Unlikely	
Myrtaceae	Calothamnus accedens		Γ4				Road verge.	Unlikely.	

Family	Scientific name	Common name	Statu	S	Source			Description and habitat requirements*	Likelihood of occurrence
						NatureMap Search	DEFL/WAHER		
							В		
			_	_	×				
Myrtaceae	Calytrix breviseta subsp. breviseta		ı	E				Shrub, 0.4-1 m high. Fl. purple-blue, Oct to Nov. Sandy clay. Swampy flats.	Unlikely.
	Chamelaucium sp. Gingin		_	_	×			Erect open branching shrub, 1.5-2 m. Fl. white, white/pink, Sep to Dec. Dry	11.19
Myrtaceae	(N.G.Marchant 6)		ı	E				white/grey, yellow sand, dry red-brown gravel. Slope, hilltop.	Unlikely.
	5		_			×	×	Densely branched shrub, 0.4-0.5 m high. Fl. green & yellow/red, Oct.	
Myrtaceae	Darwinia apiculata	Scarp Darwinia	I					Lateritic soils.	Unlikely.
								Erect, or spreading, shrub to 0.7 m high, often using other shrubs for	
					×			support. Young branches are slender, green-brown with prominent,	
			_					decurrent leaf bases, becoming grey and woody. Fl. green, Oct to Nov.	
Myrtaceae	Darwinia foetida	Muchea Bell	I	CE				Grey or white sand, swampy, seasonally wet sites.	Unlikely.
					×			Mallee, to 5 m high, bark rough, flaky. Fl. white, Oct to Dec or Jan to Feb.	
Myrtaceae	Eucalyptus balanites	Cadda Road Mallee	Т	E	~			Sandy soils with lateritic gravel.	Unlikely.
	Hypocalymma sp. Cataby (G.J.					×	×	Erect, spreading shrub, 0.5-1 m high, to 1 m wide. Fl. white, Aug. Grey	
Myrtaceae	Keighery 5151)		P2			^		sand.	Possible.
						v		Slender, erect, weeping shrub, 1.5-3 m. Fl. red, Aug, Oct to Dec. Brown	
Myrtaceae	Melaleuca viminalis		P2			×	×	sandy clay, grey sand. Creekline, flat, drain.	Possible.
	Verticordia fimbrilepis subsp.					, ,		Shrub, 0.3-0.7 m high. Fl. pink-white, Oct to Dec or Jan. Gravelly sandy or	
Myrtaceae	fimbrilepis		T	E		×		clayey soils. Flats, road verges.	Possible.
								Erect shrub, 0.2-0.75 m high. Fl. pink, May or Nov to Dec or Jan. Sand,	
Myrtaceae	Verticordia lindleyi subsp. lindleyi		P4			×	×	sandy clay. Winter-wet depressions.	Possible.
								Tuberous, perennial, herb, 0.25-0.6 m high. Fl. green & cream & red, Sep to	
Orchidaceae	Caladenia huegelii	Grand Spider Orchid	Т	E	×	×	×	Oct. Grey or brown sand, clay loam.	Possible.
		·							
	Epiblema grandiflorum var. cyaneum				×			Tuberous herb, 0.3-0.65 m high, 0.03 m wide. Fl. purple, pale blue. Black	
Orchidaceae	[now Epiblema grandiflorum]	Babe-in-a-cradle		E				peaty sand over clay, grey white peaty sand. Swamp, in shallow water.	Unlikely.
Orchidaceae	Thelymitra magnifica		P1			×	×	Perennial, herb. Stony ridges.	Unlikely.
	Thelymitra manginii K.Dixon & Batty							Tuberous, perennial, herb, to 0.8 m high. Fl. yellow, Nov to Dec or Jan.	,
Orchidaceae	-	Cinnamon Sun Orchid	т	E	×			Granite.	Highly Unlikely.
romaaooao	me. [new medymina deamamaram]	Carriament Carr Crema	-	_				Tuberous, perennial, herb, 0.15-0.25 m high. Fl. yellow & brown, Oct to	riigiiiy eriiiikeiy.
Orchidaceae	Thelymitra stellata	Star Sun Orchid	т			×	×	Nov. Sand, gravel, lateritic loam.	Possible.
romadoddo	Trioly triuta otoliata	otal oan olonia	-					Prostrate, lignotuberous shrub, 0.15-0.4 m high. Fl. yellow-brown, Dec or	. 666.616.
Proteaceae	Banksia mimica	Summer Honeypot	Т	Е	×	×	×	Jan to Feb. White or grey sand over laterite, sandy loam.	Unlikely.
101040040	Barmola Illiminoa	Cummer Heriospec	-	_				Prostrate, lignotuberous shrub, to 0.4 m high. Fl. cream-white/yellow, Sep to	
Proteaceae	Banksia pteridifolia subsp. vernalis		P3			×	×	Oct. White/grey sand over laterite.	Unlikely.
Totoaccac	Barmola pterialiona Subsp. Vernalis		1 3					Erect, compact shrub, 0.6-2 m high. Fl. white-other, May to Oct. Grey or	Recorded during the survey and
Proteaceae	Conospermum undulatum		т	V	×	×	×	yellow-orange clayey sand.	previously.
Toleaceae	Conospermani undulatum			V				Prostrate to erect shrub, 0.1-2.5 m high. Fl. white-cream, Aug to Sep. Sand,	
		Narrow curved-leaf			v			sandy loam. Winter-wet heath. Amongst low trees, or tall (sclerophyll)	
Proteaceae	Grevillea curviloba subsp. incurva		т	F	×			shrubland; in sand, or clay; occupying winter wet flats.	Possible.
Toleaceae	Grevillea curviloba subsp. Iricurva	Grevillea		_				Widely spreading shrub 0.2-1.5 m high, 0.5-1.5 m wide. Fl. red, May-Nov.	r ossible.
								Moist grey-brown sandy loam over clay, yellow sand/grey clay soils. Edge of	
	Grevillea thelemanniana subsp.					×		seasonal clay depression, on slightly deeper sandier soils, winter-wet,	
Orotopopo	·	Crider Net Crevilles	P4						Liniikah
Proteaceae	thelemanniana	Spider Net Grevillea	Γ4					swampy area, flat. Erect, lignotuberous shrub, 0.4-1 m high. Fl. yellow/cream-yellow, Feb to	Unlikely.
Duntanana	la a a a sa a a alm una ma a a dii		DO			×	×		Descible
Proteaceae	Isopogon drummondii		P3					Jun. White, grey or yellow sand, often over laterite.	Possible.
	Synaphoa an Eaithrides Esse							Dense, clumped shrub, to 0.3 m high, to 0.4 m wide. Fl. yellow, Oct. Sandy	
Duntan	Synaphea sp. Fairbridge Farm	Calamala Como I	_	OF.	×			with lateritic pebbles. Near winter-wet flats, in low woodland with weedy	I Balaka I Ia Best
Proteaceae	(D.Papenfus 696)	Selena's Synaphea	I	CE				grasses.	Highly Unlikely.
								Dioecious, shortly creeping, tufted rhizomatous, herb, 0.24-0.4 m high,	
						×		rhizomes on surface or to 1 cm deep. Fl. Sep to Nov. Sand, laterite.	
Restionaceae	Lepyrodia curvescens		P2					Seasonally inundated swampland.	Possible.
			_				×	Low-growing, wiry perennial, herb, 0.1-0.2 m high. Fl. pink/red, Jun or Sep.	
Rutaceae	Boronia humifusa		Т				^	Gravelly clay loam over laterite. Jarrah-marri open forest.	Possible.
						×	×	Erect annual (ephemeral), herb, 0.05-0.12 m high. Fl. pink, Oct to Dec.	
	Stylidium longitubum	Jumping Jacks	P3			^	^	Sandy clay, clay. Seasonal wetlands.	Unlikely.
Stylidiaceae									
Stylidiaceae								Rosetted perennial, herb, 0.15-0.55 m high, Leaves erect, oblanceolate to	
Stylidiaceae									
Stylidiaceae								spathulate, 1.5-4 cm long, 1.5-6 mm wide, apex acute to acuminate, margin	
Stylidiaceae						×	×	spathulate, 1.5-4 cm long, 1.5-6 mm wide, apex acute to acuminate, margin entire, glabrous, striate. Scape sparingly glandular on inflorescence axis,	
Stylidiaceae	Stylidium striatum	Fan-leaved Triggerplant				×	×	spathulate, 1.5-4 cm long, 1.5-6 mm wide, apex acute to acuminate, margin	Unlikely.

^{*} WA Herbarium (1998-) Conservation codes are provided in Appendix C

Appendix E — Fauna data

Fauna species recorded within the Study Area during the field surveys

Species Name	Conservation Code	GHD November 2012 survey	GHD, 2013 survey (all surveys combined)
Morethia obscura	-	-	X
Cryptoblepharus buchananii (Wall skink)	-	-	X
Crinia insignifera (Sign-bearing froglet)	-	-	X
Acanthagenys rufogularis (Spiny-cheeked Honeyeater)	-	X	X
Acanthiza inornata (Western Thornbill)	-	Χ	X
Acanthorhynchus superciliosus (Western Spinebill)	-	Χ	Χ
Accipiter cirrocephalus (Collared Sparrowhawk)	-	Χ	X
Acridotheres tristis (Common Myna)	-	Χ	X
Anas gracilis (Grey Teal)	-	Χ	X
Anas superciliosa (Pacific Black Duck)	-	Χ	X
Anthochaera carunculata (Red Wattlebird)	-	Χ	X
Ardea novaehollandiae (White-faced Heron)	-	Χ	X
Artamus cinereus (Black-faced Woodswallow)	-	Χ	Χ
Cacatua galerita (Sulphur-crested Cockatoo)	-	Χ	Χ
Cacatua sanguinea (Little Corella)	-	Χ	Χ
Chenonetta jubata (Australian Wood Duck)	-	Χ	Χ
Colluricincla harmonica (Grey Shrike-thrush)	-	Χ	Χ
Coracina novaehollandiae (Black-faced Cuckoo-shrike)	-	Χ	Χ
Corvus coronoides (Australian Raven)	-	Χ	Χ
Cracticus nigrogularis (Pied Butcherbird)	-	Χ	Χ
Cracticus tibicen (Australian Magpie)	-	Χ	Χ
Cygnus atratus (Black Swan)	-	Χ	Χ
Dacelo novaeguineae (Laughing Kookaburra)	-	Χ	Χ
Falco cenchroides (Australian Kestrel)	-	Χ	Χ
Falco longipennis (Australian Hobby)	-	Χ	Χ
Fulica atra (Eurasian Coot)	-	Χ	Χ
Gallinula tenebrosa (Dusky Moorhen)	-	Χ	Χ
Glossopsitta sp. (Lorikeet)	-	Χ	Χ
Grallina cyanoleuca (Magpie-lark)	-	Χ	Χ
Malurus splendens (Splendid Fairy-wren)	-	Χ	Χ
Pardalotus striatus (Striated Pardalote)	-	Χ	Χ
Phalacrocorax carbo (Great Cormorant)	-	Χ	Χ
Phylidonyris novaehollandiae (New Holland Honeyeater)	-	X	Χ
Platycercus zonarius subsp. semitorquatus (Twenty-eight Parrot)	-	X	X
Rhipidura leucophrys (Willie Wagtail)	-	X	Χ
Threskiornis molucca (Australian White Ibis)	-	Χ	Χ
Todiramphus sanctus (Sacred Kingfisher)	-	X	X

Calyptorhynchus latirostris (Carnaby's Cockatoo (short-billed black-cockatoo))	T, V	X	X
Calyptorhynchus banksii subsp. naso (Forest Red-tailed Black-Cockatoo)	T, E	-	X
Calyptorhynchus sp.(unidentified black cockatoo)	T, V or E	-	X
Macropus fuliginosus (Western Grey Kangaroo)	-	X	X
<i>Trichosurus vulpecula subsp. vulpecula</i> (Common Brushtail Possum)	-	X	X
Isoodon obesulus subsp. fusciventer (Quenda)	P4	X	X
Oryctolagus cuniculus (Rabbit)*	-	X	X

V Vulnerable E Endangered (EPBC Act), T Threatened (WC Act). * introduced/exotic

Likelihood of occurrence - fauna of conservation significance

Species Name	Status Source WC Act/		EPBC	Likelihood of occurrence within Study Area (SA)		
		DPaW				
Reptiles						
Lerista lineata Perth-lined Skink	*	P3	-	L – species inhabits swan coastal plain south of the Swan River, including banksia eucalypt woodlands and suburban gardens which are present within the SA. This species was not recorded within the Study Area. However, given the cryptic nature of this species it is still considered likely that it could occur within the woodland habitats of the Study Area south of the river.		
Neelaps calonotos Black-striped Snake	1	P3	-	UL – habitat (banksia/eucalypt woodlands) within SA considered marginal, and modified.		
Pseudemydura umbrina Western Swamp Turtle	1	Т	-	VU – habitat for this species (ephemeral swamps) not recorded within SA. Only known from two swamps near Bullsbrook. Habitat within SA considered marginal, and modified.		
Morelia spilota subsp. imbricata Carpet Python	1	S	-	UL – habitat for this species within the SA (woodland, and riparian) is restricted and modified.		
Birds						
Calidris ferruginea Curlew Sandpiper	1	IA	MM	UL – habitat suitable for this species (mainly occur on intertidal mudflats in sheltered coastal areas) is restricted to areas of exposed mud along Swan River margins, within SA near existing Swan River crossing. Possible occasional visitor.		
Calidris ruficollis Red-necked Stint	1	IA	MM	UL – habitat suitable for this species (mainly occur in sheltered coastal areas) is restricted to areas of exposed mud along Swan River margins, within SA near existing Swan River crossing. Possible occasional non-breeding visitor.		
Actitis hypoleucos Common Sandpiper	1	IA	MM	UL – habitat suitable for this species is restricted to areas of exposed mud along Swan River margins, within SA near existing Swan River crossing. Possible occasional visitor.		
Tringa glareola Wood Sandpiper	1	IA	MM/MT	UL – habitat suitable for species (well-vegetated, shallow, freshwater wetlands, such as swamps, billabongs, lakes, pools and waterholes) not recorded within SA. Does not breed in Australia.		
Tringa nebularia Common Greenshank	1	IA	MM	UL – habitat suitable for species (inland wetlands and sheltered wetland coastal habitats of varying salinity) not recorded within SA. Does not breed in Australia.		
Anous tenuirostris subsp. melanops Australian Lesser Noddy	1	Т	V	VU – habitat suitable for this species (coral limestone islands, mangroves, and sandy/shingle beaches) not recorded with SA.		
Apus pacificus Fork-tailed Swift	1	IA	MM	UL – species almost exclusively aerial and does not breed within Australia. Possible occasional visitor.		
Ardea alba subsp. modesta Eastern Great Egret	1	IA	MM, MW	UL – habitat suitable for this species is limited to foraging habitat along the Swan River margins along existing Swan River crossing. Possible occasional visitor.		
Ardea ibis Cattle Egret	1	IA	MM, MW	UL – habitat suitable for this species is limited to foraging habitat along the Swan River margins and adjacent riparian zone, near existing Swan River crossing. Possible occasional visitor.		
Burhinus grallarius Bush Stone-curlew	1	P4	-	VU – habitat for this species (large tracts of open woodland, with woody debris) marginal within SA.		
Cacatua pastinator subsp. pastinator Muir's Corella (Western Corella SW WA)	1	Т	V	UL – species distribution is generally restricted to the extreme south-west of WA. Possible occasional visitor to remnant woodlands of SA.		
Calyptorhynchus banksii subsp. naso Forest Red-tailed Black-Cockatoo	1,2	Т	Е	Recorded on site during current survey – A female and juvenile Forest Red-tailed Black-Cockatoo were observed foraging within the vegetation of Poison Gully Creek (High Wycombe area) during the most recent surveys (September 2013). Suitable foraging, night roosting and potential breeding hollows were also recorded within the habitat along Poison Gully Creek. Habitat for this species for the remainder of the SA is restricted to small linear patches of remnant woodland and riparian woodland habitat. May occasionally visit these habitat for foraging.		
Calyptorhynchus baudinii Baudin's Cockatoo (long-billed black-cockatoo)	1,2	Т	V	UL – habitat for this species restricted to small linear patches of remnant woodland and riparian woodland habitat. May occasionally visit the SA for foraging.		

Species Name	Status	Source		Likelihood of occurrence within Study Area (SA)		
		WC Act/ DPaW	EPBC			
Calyptorhynchus latirostris Carnaby's Cockatoo (short-billed black-cockatoo)	1,2	Т	V	Recorded on site during survey – Two Carnaby's Black Cockatoos were observed flying over the site on one occasion, south along the Tonkin Highway (November 2012). During the same survey four other unidentified black cockatoos were observed flying north along the edge of the Swan River. A small flock of Carnaby's Black Cockatoo was recorded flying north-south over the High Wycombe area and was observed alighting in a stand of Marri in the southern portion of the site. A separate small flock of unidentified Black Cockatoo (Calyptorhynchus sp.) was also heard flying over north-east later in the afternoon during the same survey (August 2013). Habitat for this species for the remainder of the SA is restricted to small linear patches of remnant woodland and riparian woodland habitat. May occasionally visit these habitat for foraging.		
Haliaeetus leucogaster White-bellied Sea-eagle	2	-	MT	UL – habitat within SA restricted to riparian vegetation and the river. May be an occasional visitor to the SA.		
Botaurus poiciloptilus Australasian Bittern	1	Т	E	VU – habitat for this species (densely vegetated freshwater wetlands and, rarely, in estuaries or tidal wetlands) not recorded within SA.		
Ixobrychus flavicollis subsp. australis Australian Black Bittern	1	P3	-	VU – habitat for this species (mangroves, stream side vegetation) limited to narrow sections of riparian habitat along margins of Swan River.		
Ixobrychus minutus subsp. dubius Australian Little Bittern	1	P4	-	VU – habitat for this species (reed beds, dense vegetation of freshwater swamps and creeks) not recorded within SA.		
Leipoa ocellata Mallee Fowl	1,2	Т	V, MT	VU – The Malleefowl usually occurs in shrublands and low woodlands that are dominated by mallee vegetation. There is no suitable habitat present within the SA.		
Macropus irma Western Brush Wallaby	1	P4	-	VU - habitat for this species (larger tracts of continuous woodland/forest) not recorded within SA. The SA is not connected to other areas of large continuous vegetation.		
Merops ornatus Rainbow Bee-eater	1,2	IA	MT	L – suitable habitat in the form of woodlands is in the SA, particularly given all sites are in close proximity to water. Most likely a seasonal visitor to the Swan River and riparian vegetation of the SA.		
Rostratula australis Australian Painted Snipe	2	Т	V, MW	UL – habitat for this species (shallow terrestrial freshwater (occasionally brackish) wetlands, including temporary and permanent lakes, swamps and claypans) restricted to margins of the Swan River and riparian vegetation. Possible very occasional visitor to SA.		
Sterna nereis subsp. nereis Fairy Tern	1,2	Т	V	UL – habitat for this species (nests on sheltered sandy beaches, spits and banks above the high tide line and below vegetation, roost on beaches) was not recorded within the SA.		
Falco peregrinus Peregrine Falcon	1	S	-	L – suitable foraging and temporary roosting habitat recorded within woodland habitats and along river. Species likely to be a regular visitor to SA.		
Mammals						
Myrmecobius fasciatus Numbat	1	Т	E	VU – habitat for this species was not recorded within the SA.		
Dasyurus geoffroii Chuditch	1,2	Т	V	VU – habitat for this species is very marginal and restricted to the small linear patches of woodland. The SA is not connected to other areas of large continuous vegetation.		
Hydromys chrysogaster Water-rat	1	P4	-	L – Swan River and riparian vegetation provides suitable habitat. Species likely to occupy a broader are than the river section intercepted by the Project. Species also likely to occur within Poison Gully Creek.		
Isoodon obesulus subsp. fusciventer Quenda	1	P4	-	Recorded within woodland habitat during the survey . Known from previous records within Study Area. This species was recorded on several occasions in habitat north of the Tonkin Highway and south of Stanton Road, within the Perth Airport land and the High Wycombe area. A Quenda was recorded foraging beneath a thicket of the introduced Victorian tea tree in the southern portion of the High Wycombe site, and Quenda diggings/scratching were recorded in multiple locations in the southern portion of the site		
Phascogale calura Red-tailed Phascogale	2	Т	Е	VU – habitat for this species is very marginal (preferred habitats are Allocasuarina woodlands with hollow-containing eucalypts (e.g. Euca wandoo) and Gastrolobium spp.) and restricted to the riparian woodland of the SA. The SA is not connected to other areas of large contin vegetation. Furthermore, the species has not been recorded on the Swan Coastal Plain in the vicinity of the SA and is now restricted to wa ain the Wheatbelt of Western Australia.		
Phascogale tapoatafa subsp. tapoatafa Southern Brush-tailed Phascogale	1	T	-	UL – habitat for this species is very marginal and restricted to the small linear patches of woodland. The SA is not connected to other areas of large continuous vegetation.		
Setonix brachyyurus Quokka	2	Т	V	VU – habitat for this species was not recorded within the SA.		
Guonna						

Species Name	Status	Source		Likelihood of occurrence within Study Area (SA)		
		WC Act/ DPaW	EPBC			
Synemon gratiosa Graceful Sun Moth	2	P4	-	L – habitat for this species within this part of the Swan Coastal Plain (<i>Banksia</i> woodland on Spearwood and Bassendean dunes, where the second known host plant <i>Lomandra hermaphrodita</i> is widespread) was marginal. <i>Lomandra</i> sp. was recorded but was uncommon and scattered, and associated with modified areas. There is a low possibility that this species would be a resident within the low open woodland habitats of the SA.		

Key to table:

Source

1 = DPaW NatureBase - record(s) from within 5 km of the Study Area.

2 = EPBC Act Protected Matters Search Tool (PMST).

* species not recorded from database search. Species considered as the documented range (Van Dyke and Strahan, 2008 or Bush et al., 2012) and habitat overlaps with the Study Area.

Likelihood

KNOWN – species has historical record(s) from within the Study Area from NatureBase.

L = LIKELY - potentially suitable habitat occurs within Study Area. Species recorded historically within 5 km of the area and species' known range encompasses the area, but species not detected within area during surveys;

UN = UNLIKELY - species' known range encompasses the Study Area, but suitable habitat does not occur within area, or potentially suitable habitat occurs within area but habitat quality and quantity is generally poor or restricted; and

VU = VERY UNLIKELY – no historical records of the species within 5 km of the Study Area and suitable habitat within area is absent or very restricted.

No category exists for species' absence.

Conservation categories

E Endangered (EPBC Act)

V Vulnerable (EPBC Act)

MT Migratory terrestrial species (EPBC Act)

MW Migratory wetland species (EPBC Act)

MM Migratory marine species (EPBC Act)

T Threatened (WC Act)

S Other specially protected fauna (WC Act)

P Priority (DPaW)

IA International Agreement

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